



TELEPHONE NUMBER,
BANK 852.

ENGLAND - 1859.

Established in

AUSTRALASIA - 1885.

TELEGRAPHIC ADDRESS,
"CHEMICUS LONDON."

Registered as a Newspaper.

No. 1,011. Vol. LIV.

JUNE 10, 1899.

{Subscription 10s. per annum, including Diary, Post
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ALLEN & HANBURY'S Ltd.,

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June, 1899.



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LONDON, 1862.
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THE CHEMIST & DRUGGIST SUPPLEMENT.

LONDON: 42 CANNON STREET, E.C.
SATURDAY, JUNE 10 1899.

Businesses for Disposal
Businesses Wanted
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.

For Bargains see last page of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

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10.—**£700.—GLOUCESTERSHIRE**.—Illness cause of sale; old-established Business; well situate in the centre of town; returns between £600 and £700 per annum; capital residence, held on lease; price £450.

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14.—**£800.—WORCESTERSHIRE**.—Capital opportunity for a good business man; Dispensing and Retail; returns last year £800, with *excellent profits*; price £350, or valuation.

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A COUNTY Analyst has a vacancy for an Articled Pupil; premium required, which would be reduced in the case of a person having previous knowledge of Chemistry. Apply, 175/3, Office of this Paper.

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4.—**WEST OF ENGLAND.**—First-class Retail and Dispensing Business; 1,500 new prescriptions yearly, at excellent prices; low rent; capital house with garden and greenhouse; price £700; worth attention.

5.—**MIDLAND COUNTY.**—Light Retail, Dispensing, and Prescribing; returns £1,400, with excellent profits; not much opposition; cheap rent, on lease; price £950.

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7.—**SUFFOLK COAST.**—Good-class Retail and Dispensing; full prices; returns £500; net profit £200; handsome front; good house and garden; price £450; owner retiring after 33 years.

8.—**WILTSHIRE.**—Practically unopposed Business, doing £10 weekly by young assistant; expenses nominal; plenty of scope for increase; price £250.

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GLOUCESTERSHIRE.—Fashionable town and health-resort; nice corner premises; position commands business; many years fitted; Light Retail, Dispensing, and Prescribing; owner retaining proprietary; same hands 22 years, last 2 years as branch under manager; price £350, on lease. "Beldere" (177/26), Office of this Paper.

ISLE OF WIGHT (principal town).—Very old-established Light Retail, Dispensing, Prescribing, and Photographic; rent, on lease, £30; returns about £750, at very large profit. Apply, "Solazzi" (172/38), Office of this Paper.

LIVERPOOL.—To be Sold immediately, at a great sacrifice, in consequence of illness, a good sound Cash Retail, Dispensing, and Prescribing Business; excellent corner stand in a main thoroughfare, wide entrance; old established. Full particulars from "Registered Chemist," c/o Evans & Co., 56 Hanover Street, Liverpool.

LONDON, S.E.—Unusual opportunity to obtain for £335, or offer, very profitable Cash Prescribing Business; profit £4 to £5 per week, expenses 18s. 6d. week, include rates, taxes, and rent; large house, very prominent position, busy thoroughfare; trans stop at, and pass door; good saleable stock; magnificently fitted; investigation courted; rare chance for a married man who wants to settle down; good reasons for disposing. Apply, any time, within seven days, "Norfolk" (177/43), Office of this Paper.

MANCHESTER (near).—For immediate disposal, a Cash Retail and Prescribing Business, in main thoroughfare; last year's receipts £562; no opposition; nearest qualified Chemist 2 miles away; satisfactory reasons for selling, and fullest particulars to genuine applicants; price £350, value stock and fixtures. Apply, 175/18, Office of this Paper.

MANCHESTER.—Good-class Light Retail, Dispensing, and Prescribing Business; returns £618; net profit over £200; splendid opening for Dentistry; shop is well fitted and stocked; low rent; good house; price £350, which is low, to effect a speedy sale, having bought

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MID KENT.—Chemist can strongly recommend good old-established Country Business, capable of great increase under energetic management; sole reason for disposal, ill-health; good house and shop; returns about £85; price £500. Apply, in first place, to "Invicta" (173/29), Office of this Paper.

NORTH OF ENGLAND HEALTH RESORT.—For immediate Sale, under satisfactory conditions, a first class Dispensing and Retail Business, in same hands for 20 years; returns £1260 under manager; books have been properly kept and are open to every investigation; handsome corner shop with fine house; price £1100 or close offer if made promptly. "Genuine" (177/38), Office of this Paper.

SOMERSET.—Cash Retail; important position; large town; returns £1500 by manager; Principal ought to do £2000; owner's time being fully occupied will accept £500 or £100 and valuation of stock and fixtures. 177/51, Office of this Paper.

SOUTH-WESTERN COUNTY.—Small town; Light Retail and Prescribing Business; selling through serious illness; returns £10 weekly; profits about half; rent £30 for shop and house; price £275, including furniture sufficient for single man; £100 could remain. Apply, 77/30, Office of this Paper.

WORCESTERSHIRE.—Light Retail and Prescribing Business, situated in best position of increasing neighbourhood; profitable trade; no other qualified Chemist; low rent; nicely-fitted shop; splendid opening for Dentistry; returns £800; valuation only required, about 325. Full particulars of "Statim" (167/14), Office of this Paper.

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250.—London, N.E.; main road; Light Retail and Prescribing Business; returns £450; large profits; rent only £35; not granted; comfortable house; shop recently re-fitted and well stocked; best investigation courted. 177/35, Office of this Paper.

100 CASH down (balance at convenience) will secure a genuine Business doing over £12 weekly; handsomely-fitted shop, good house, moderate rent; situation, best part of main road in leading manufacturing town; owner, having taken much larger concern, will sell at sacrifice to an immediate purchaser. "Instantan" (178/8), Office of this Paper.

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WEST OR SOUTH-WEST OF ENGLAND.—Wanted, immediately, a good-class Retail and Dispensing Business, open to base; must be bona-fide and bear strict investigation; no objection to a cultural, but good house preferred, if possible. Send full particulars, in confidence, to C. H. A. (177/37), Office of this Paper.

WANTED, good Business in good provincial town, returning upwards of £2000 at fair profits; cash ready for sound concern. Apply, with full particulars in first letter, to T. E. B. Blankley, Rose Bank, Weston, near Sheffield.

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Chemists Refitting.—For immediate Disposal, Mahogany Show and Counter Cases, Specie-jars, Shop-bottles, Nest of Drawers, &c. Particulars from Evans, Gadd & Co., Exeter.

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Advertisers whose Announcements appear under this heading can make arrangements to see applicants for the situations at our Offices, by giving a few days' notice to
THE PUBLISHER, 42 Cannon Street, E.C.

RETAIL.

ABERYSTWYTH.—A qualified Assistant, for seaside summer season, in Dispensing and Retail Business; knowledge of Photography preferred. State age, height, and experience, enclose photo (to be returned), Robert Ellis, Pharmaceutical Chemist, Aberystwyth.

BIRMINGHAM (Near).—A smart Junior or Improver wanted, at once, for Light Retail and Prescribing business; comfortable home. Apply, stating salary required, references, and photo, if convenient, Onllingford, 11 Coventry Road, Hay Mills, Birmingham.

BISHOP'S CASTLE.—Wanted immediately, reliable Junior; indoors, comfortable home; weekly half-holiday during summer months, no Sunday duty; good references indispensable; total abstainer preferred. Apply, with full particulars, and enclose photo if convenient, to G. Strawn, Chemist, Bishop's Castle, Shropshire.

BRIGHTON.—A competent Assistant wanted, about 21 or 22, indoors, accustomed to good-class Dispensing and Retail trade, with good references. Apply, stating age, height, experience, and salary required, enclosing photo (to be returned), to E. C. Caton, 6 Waterloo Street, Brighton.

BRIGHTON.—Wanted, at once, a Junior Assistant, for a high-class Dispensing and Cash business; a permanency for a steady man; hours easy, and time for recreation or study. Apply, with photo (to be returned), stating age, height, salary (indoors), and references, to M. Adler, 37 Preston Street, Brighton.

BRIGHTON.—Assistant; good Dispenser and Counterman; 2 kept. State age, height, references, salary (indoors), and when disengaged, also enclose photo, if convenient, which will be returned, K. Pears & Son, 16 Brunswick Road, Brighton.

BRISTOL.—Wanted, a Junior, indoors, at once; state salary and full particulars, with photo if convenient. Apply, John Evans, Temple Gate, Bristol.

BUDE, NORTH CORNWALL.—Wanted, a good Junior Assistant, in a Mixed business, for four or five months (outdoors); must be a good Dispenser and Counterman. State age, references, and salary required, Fellow Bros.

BUXTON.—Wanted, immediately, Junior Assistant, accustomed to good-class Dispensing business; indoors. State salary, when at liberty, with photo and particulars, to A. Thresh, Buxton Derby.

CAPE COLONY.—Wanted, good Assistant, of gentlemanly address, well up in Dispensing, energetic, able to take charge of Branch, understands bookkeeping, and able to make out accounts; aged about 27; Minor qualification; Englishman; salary, first year, £140; second, £150; third, £160; and 2½ per cent. commission on cash sales; lodging found; second-class passage paid out; 3 years' agreement; required to start middle July; candidates must hold undeniable references. Address, "Cape," Messrs. Evans, Letcher & Webb, 60 Bartolomew Close, London, E.C.

CHARD.—At once, indoor Assistant, about 24, gentlemanly, and accustomed to good-class Country trade; qualification not essential, but must have excellent references; liberal salary to suitable man. Apply, stating age, height, experience, and salary, to Smith, Chemist, Chard Somerset.

SITUATIONS OPEN—cont.

RETAIL—continued.

CHATHAM.—Junior Assistant or Improver (outdoors), at once, for Dispensing and good Retail business, under qualified manager; weekly half-holiday; state age, height, salary required, and enclose photo (to be returned). Apply to T. C. Lamb, Chemist, Chatham.

CHELMSFORD.—Wanted, immediately, qualified Junior, about 22 or 23, for General Country business, well up in Dispensing, and knowledge of Photography; staff—three Assistants, Clerk, &c.; hours easy. Reply, with portrait and full particulars, stating salary, outdoors, to James Tomlinson, Chelmsford, Essex.

CHELTHENHAM.—Wanted, a qualified Dispensing Assistant; also a Junior; indoors (principals non-resident). Apply, stating particulars as to experience, &c., Nathl. Smith & Co., Cheltenham.

CLIFTON, BRISTOL.—For July 1st, a competent Assistant, not under 23, for the counter, in a first-class Dispensing business where 4 are kept; indoors. Address full particulars of experience, height, and salary required, to Giles, Schaech & Co.

DARLINGTON.—Wanted, qualified Assistant, chiefly for Hospital and Doctor's dispensing. Photo and particulars to R. Nicholson, Chemist, Darlington.

DARTMOUTH.—Wanted, Junior or Improver; indoors; easy hours; weekly half-holiday. Apply, giving full particulars and salary required, to Rees, Chemist, Dartmouth, Devon.

DEAL.—Wanted, an Assistant, about 23 (indoors), for three months or more, during the season, for a Dispensing and Light Retail business, on the South-east Coast. Apply, stating age, height, salary and reference, to John Green, Pharmaceutical Chemist, 28 High Street, Deal.

DEVIZES.—Wanted, a qualified Assistant, not under 23 years of age, for a good-class Country business. Apply, with full particulars as to age, references, and salary required (indoors), to T. R. Edwards, Chymist, Devizes.

EASTBOURNE.—An Assistant wanted. Apply, with full particulars, age, height, salary required, to R. Trickey, Chemist, 35 Terminus Road, Eastbourne.

EASTBOURNE.—Experienced Assistant, for summer months, or longer, about 23 to 25, with good address, preferably qualified; accustomed to good-class trade. Full particulars, age, references, &c., with photo, if convenient, to J. F. Andrews, Eastbourne.

EASTBOURNE.—Wanted, at once, for Dispensing and general Retail trade, smart Junior Assistant. Send usual particulars and references, to E. G. Bayley, Chemist, Seaside Road, Eastbourne.

ESHER.—Mr. Chapman, Chemist, Esher, Surrey, has a vacancy for a Junior Assistant who has been accustomed to a good-class business; time allowed for reading; little or no Sunday duty.

GLOUCESTER.—Wanted, a smart Junior, indoors, for a Light Retail and Dispensing business; one capable of taking charge occasionally, and desiring a permanency preferred; weekly half-holiday. State full particulars and salary required, and enclose photo (to be returned) to A. B. Biggs, Chemist, Gloucester.

GRIMSBY.—Junior Assistant, or one who has had 3 to 4 years' experience in a Light Retail, with Dispensing; must be obliging, steady, and industrious, and of good character. How long in last situation, salary required, and references, height, photo, if any (to be returned), G. Croft, Victoria Street, Grimsby.

GUILDFORD.—An Assistant, about 21, is required for an old-established Pharmacy; he must be a good Dispenser, and accustomed to a first-class business. State age and experience and enclose photo to Alex. J. T. Loug, Pharmaceutical Chemist, Guildford.

HAMPSHIRE.—Smart Junior; indoors; about 23; with good experience and gentlemanly address; steady, and trustworthy; hours 8 till 8 Saturday 10, no Sunday duty. Apply, stating age, height, salary required, references, and enclose photo (returnable), to Wm. Duckworth, Market Place, Basingstoke.

HARROGATE.—Assistant wanted at once for a Light Retail and Dispensing Business. Apply, stating age, height, salary required, references, and enclose photo (to be returned), J. R. Pullan, 4 Royal Parade, Harrogate.

HAVERFORDWEST.—Wanted, qualified Senior (2 others kept) in high-class provincial business. State full particulars, with references, &c. (outdoors), to Saunders & Son, Haverfordwest.

HERNE BAY.—£8 monthly, outdoor, for three or four months; smart Junior; must be good Counterman. Enclose photo, and state age, height, reference, and experience, Neale, Chemist, 33 and 34 Mortimer Street, Herne Bay.

HYPHE.—Wanted immediately, an Assistant for short time; indoors. Apply, stating reference, salary required, photo if convenient (to be returned), R. Lemmon, Hythe, Kent.

INDIA.—Required, an Assistant (Minor), about 24, single, with first-class London (West-end) experience; of gentlemanly appearance; 4 years' agreement; liberal salary; passage out, and furnished apartments. Apply by letter, S. M. O., c/o Messrs. Meggeson & Co., 14 Miles Lane, E.C.

KNIGHTON.—Wanted, a good Junior Assistant; indoors. Apply, sending fullest particulars, to J. Blower, Chemist, Knighton, Radnorshire.

LISCARD.—Qualified Assistant wanted for good-class Dispensing business, chiefly for branch; rooms provided. State salary required, and full particulars, Tottle, Chemist, Liscard, Cheshire.

LIVERPOOL.—Wanted, at once, a Junior Assistant or Turnover Apprentice, about 19, in a Light Retail and Dispensing business; time allowed for recreation and attending School of Pharmacy. Apply, stating age, height, and salary expected, with reference, to Hinkley, Soncombe, Liverpool.

LONDON, S.W.—Early in July, a qualified Assistant; not under 24 years of age; accustomed to good-class business; 3 Assistants kept. Apply, giving usual particulars, to H. S. Hairsine, 47 Haymarket, London.

LONDON, W.—A qualified Assistant as Senior; 26 or 28. Apply, in first instance, by letter, to X. Y. Z., c/o Mearon, Squire & Francis, 38 Southmark Street, S.E.

LONDON.—Wanted, Junior Assistant (indoors) for Light Retail, Dispensing business; must be quick, active, and obliging; able to take charge in absence of principal. Apply personally, or write, stating age, references, and salary required, to J. Bunker, 64 Greenwood Road, Dalston, N.E.

LONDON, W.—A qualified Assistant, accustomed to good Dispensing business; indoors. Apply, personally if possible, or by letter, stating age, and salary required, to A. & W. Hemingway, 20 Portman Street, Portman Square, W.

LONDON, N.W.—Junior, at once; indoors; abstainer; hours 8 till 10; at liberty Thursday afternoon and evening. Apply personally, or enclose carte with age, height, &c., to Mr. Taplin, 31 Hampstead Road, London, N.W. One only kept.

LONDON, W.—Messrs. F. W. Warren & Co., 340 Harrow Road, W. (opposite Lock Hospital), have a vacancy for a Junior Assistant about 23.

LONDON, S.W.—Qualified Dispenser (outdoor) required for large Dispensing business, about 24 years of age; short hours and no Sunday duty. Apply, stating salary required, to Box 163 Sell's Advertising Office, London.

LONDON, N.W.—Qualified Assistant wanted for good Dispensing business. Please send photo and full particulars, P. Davidson, Pharmaceutical Chemist, 342 High Road, Brondesbury, N.W.

LONDON, N.E.—Junior or Improver; outdoors; no Sunday or Bank Holiday duty; half-day allowed weekly. Apply personally (if possible) to 443 Kingsland Road, N.E.

LONDON, W.—Assistant wanted in a week's time; one who has had experience of all-round cash trade, and with knowledge of Photographic trade preferred. Send particulars of age, experience, salary required, &c., in first letter, to avoid unnecessary correspondence. Barge, Fernhead Road, Paddington.

LONDON, W.—Qualified Assistant, desirous of acquiring a thorough knowledge of Dentistry in lieu of part salary. Apply, stating full particulars, to "Liq. Opil Sed." c/o Battley & Watts, Elephant Yard, Fore Street, Cripplegate, E.C.

LONDON, W.C.—Wanted, smart Junior Assistants. Apply, personally, Taylor's Drug Co., Ltd., 25 High Holborn.

LONDON, N.W.—Competent Assistant (indoors) wanted for good class Dispensing and Retail; must have had good experience and be possessed of excellent references. Apply, with full particulars, to A. Bevan, 6 Dennington Parade, West Hampstead, N.W.

LONDON, S.W.—Energetic, Qualified Assistant for Branch; aged about 25; good Counterman and Dispenser. Apply personally or by letter to W., 166 North End Road, West Kensington, W.

LONDON, S.E.—Required immediately, permanent Assistant in good-class suburban business, South London. Apply, giving usual particulars, to Manager, 164 Rushey Green, Catford. Also Junior wanted.

LONDON, N.E.—Qualified; for Branch; aged about 26; salary £65, with furnished apartments, board and attendance; must be energetic and reliable; a gentleman from a country house not objected to; one evening off, alternate Sundays on duty 6 P.M. to 10 P.M. Apply by letter, giving particulars of experience, references, &c., "Chemist," 309 Hackney Road, N.E.

LONDON, W.—Qualified Assistant, about 24, in good-class Dispensing business where two are kept; indoors; weekly half-holiday (and part summer holiday later on); salary commencing £60, rising to £80. Please enclose c.v., and give references to save time to "Radix," c/o Meggeson & Co., Miles Lane, Upper Thames Street, E.C.

LONDON, S.W.—Assistant; indoors; accustomed to good-class trade; salary £40. F. H. Glew, Chemist and Radiographer, 156 Clapham Road, London, S.W.

LONDON, S.E.—Improver or Junior wanted about June 23; suitable for one desiring permanency; aged about 18 or 19. Please give usual particulars to W. E. Callam, 194 Crystal Palace Road, East Dulwich, S.E.

LONDON, S.W.—Wanted, a competent Assistant, about 24, indoors, for Dispensing and Light Retail business. Apply personally, or by letter, to Lloyd, 257 King's Road, Chelsea, S.W.

LONDON, W.—Immediately, a Qualified Assistant, aged about 23, with good experience. Apply, by letter first, to Savory & Moore, 143 New Bond Street.

LONDON, S.W.—Wanted, at once, at Haymarket Store, a qualified Dispenser (outdoors). Apply, by letter, giving particulars of experience, age, and salary expected, addressed to "Chemist," 23 Haymarket, S.W.

LONDON, S.E.—Wanted, smart qualified Assistant; outdoors; salary commence £120, with good prospects of advancement; hours comparatively short, and little extra duty. Apply, A. R. G. (17723), Office of this Paper.

LONDON, W.—Wanted, immediately, a qualified Assistant, about 24 years of age, and accustomed to a good-class Dispensing business. Apply, Lynn, Chemist, Holland Park Avenue, W.

LONDON, S.W.—Junior Assistant for Light Retail, Dispensing, and Prescribing business. Apply, O. Pretty, Pharmaceutical Chemist and Dentist, 235 North End Road, Wallham Green, S.W.

LONDON, N.W.—Wanted, at once, reliable Junior (unqualified), used to good-class business, and of gentlemanly appearance and address; undenialic references essential. Apply, giving full particulars of age, height, salary required (indoors), and references, to Chas. A. Neale, 16 Townshend Road, Regent's Park, N.W.

LUTON, BEDS.—Manager, qualified, single, smart, up-to-date, and well recommended; entire control; hours easy; live away from the business. Enclose photo and particulars of experience to Chantler, 10 Park Square, Luton.

MANCHESTER.—Junior Assistant wanted, at once; outdoors; half-day weekly. State age, height, salary, and references, to Lockwood, Chemist, Harpurhey.

MANCHESTER DISTRICT.—Qualified Assistant; three kept. "State salary required (outdoors), age, height, and references, to "Pharmacist," c/o Evans, Sons & Co., Liverpool.

MANCHESTER.—Wanted Assistant; smart man for Manchester, to work up Store trade; must have undeniable references. Also young man for Warehouse work; this would suit a part-time man, or one with Wholesale experience wishing to go into Retail. 175/23, Office of this Paper.

MARGATE.—Assistant wanted, about 23; indoors. Apply, stating height, salary required, and enclosing photo, to A. H. Brooks, Chemist, Margate.

MARLOW.—Wanted, early in June, an Assistant for a good-class Family, Dispensing, and Photographic business; preference will be given to a gentleman who is well up in Photography. Apply, with full particulars (indoors), to O. Page Dye, The Central Pharmacy, Marlow.

NATAL.—At once, a good Assistant, well up in Dispensing, and able to take charge; one with country experience, and knowing cattle medicines preferred; aged about 26; qualified; salary, first year, £12 per month; second year, £13; third year, £14; bedroon provided; second-class passage paid out; three years' agreement. Candidates, who must hold undeniable references, address "Natal," Messrs. Evans, Lescher & Webb, 30 Bartholomew Close, London, E.C.

NEWBURY.—A good Junior Assistant; must be smart at the counter and competent to assist in dispensing occasionally. Apply, stating age, height, references, and salary required (outdoors), Henry Davis, Chemist, Newbury, Berks.

NEWCASTLE-ON-TYNE.—Wanted a qualified Assistant at once. Write, stating age, references, qualification, experience, and wages expected, to W. Proctor, Chemist, New Bridge Street, Newcastle-on-Tyne.

NEWPORT.—Wanted, a smart, active Junior, accustomed to the Photographic trade for Dispensing and Mixed Retail; must be a good Counterman, quick and reliable. Apply, with photo (to be returned), stating age, height, salary (outdoor), and references, to A. Smith, 5 High Street, Newport, Mon.

OSTEND.—Wanted, at once, for the Summer season (three months), a good English Assistant, who can speak French; must have good references. Apply at once, with full particulars, to A. de Cock, Pharmacie Centrale, 16 Rue des Sœurs Blanches, Ostend, Belgium.

OXFORD.—Good Junior; 20 to 21; as early as possible; good address and accustomed to high-class Dispensing business essential; a little photography; very easy hours, Sunday duty 3 hours once a fortnight. Apply, 71 High Street, Oxford.

PARIS.—Qualified Assistant wanted, 1st July, for first-class Pharmacy. Apply, with full particulars, to R. L., c/o S. Maw, Son & Thompson, to 12 Aldersgate Street, E.C.

PENARTH.—Junior, for good-class Retail (knowledge of Photography preferred). Apply, with full usual particulars, to F. Millward, Cash chemist, Penarth.

PONTEFRACT.—Wanted, at once, smart, active Assistant (outdoors), about 20, for pushing Retail business; must be quick and reliable, and a good Counterman. State age, experience, references, and salary required, with photo, W. Bratley, Chemist, Pontefract.

SCARBOROUGH.—Thoroughly reliable and competent man, capable of being left in charge, for a Mixed Retail and small Wholesale; tick, and a good stock-keeper; must have excellent references, and an abainer preferred; required at once; permanency to a good man; qualification not imperative; references, salary, and full particulars. Apply, 10, Scarborough.

SEASIDE (Lancashire).—Assistant, unqualified; smart, energetic, experienced; one accustomed to pushing Store trade preferred; permanency. Apply, stating age, height, and full particulars, salary required, and enclosing references and photo, 175/23, Office of this Paper.

SEASIDE.—Wanted, an Assistant for about 3 months for high-class business; must be well up in Dispensing; aged about 23. State full particulars, "Rhoi" (177/33), Office of this Paper.

SEASIDE.—Wanted, at once, a good active Assistant; qualification not necessary. Apply, with full particulars (indoors), to Barnett, chemist, Cleethorpes.

SEASIDE.—Immediately, senior Assistant, indoors, age from 25 to 35; must be well up, for a good-class Light Retail and Dispensing business. State age, height, references, salary required, and enclose carte (to be returned), E. Michell-Smith, Chemist, Weymouth.

SOUTH AFRICA.—A qualified Assistant wanted; climate healthy; salary progressive. Apply by letter, giving full particulars, to "Allan" (30/21), Office of this Paper.

STAFFORD.—Wanted, a Junior Assistant, for good-class General Retail and Dispensing; outdoors. State age, height, and salary required, and enclose photo, J. Marson & Son, Stafford.

STOURBRIDGE.—Wanted, at once, Assistant for good-class Retail and Dispensing. Particulars of experience, salary required (indoors preferred, but not essential), &c., to Selleck, Pharmacist, Stourbridge.

STROUD.—By the end of June, a steady and reliable Assistant, for good Retail and Dispensing. Applications, with full particulars and carte, to D. Smith, Market Place, Stroud.

SWAFFHAM.—Junior Assistant for good-class country business; progressive salary and comfortable home; enclose photo if possible. Knights, Chemist, Swaffham, Norfolk.

SWINDON.—Wanted, reliable Assistant, in good Dispensing and General Retail business, with Specialities; capable of taking charge occasionally, and able to take charge of Branch if required; abstainer and one requiring a permanency preferred. Particulars to Shawyer, Chemist, 12 Wood Street, Swindon, Wilts.

TORBAY.—Summer Season. —At once, competent, qualified Assistant; capable of entire charge of best-class Dispensing business; smart Counterman. Particulars as to salary, age, experience, together with photo and references, to F. Sarsou, Paignton, Devon.

TORQUAY.—Qualified Assistant (outdoors) wanted, about 24 years of age, accustomed to good-class Dispensing business. Apply, with usual particulars, to Horton & Co., the Torbay Pharmacy, Torquay.

TRURO.—Qualified Assistant, aged about 25, capable of taking charge; salary £60 per annum, indoors. Send references and photo to T. Anthony, Pharmacist, Truro.

WESTGATE-ON-SEA.—Immediately, for three or four months, a quick and accurate Dispenser for a high-class business. Apply, with full particulars, if possible enclosing carte, to F. R. Bessant, Pharmaceutical Chemist.

WEYMOUTH.—Wanted, an Assistant for the season (about three months); must be a competent man, with a knowledge of Photography preferred. Apply, with full particulars, to Gibbs, Chemist, Weymouth.

WOLVERHAMPTON.—Wanted, indoor Assistant as Dispenser, qualified or unqualified. State age, height, references, when at liberty, salary required, and enclose photo, to "Chemist," 11 Queen Square, Wolverhampton.

WOODHALL SPA.—Junior, at once, indoors, for 6 months; capital chance for Dispensing experience. State salary, and enclose carte, with reference, to Carlton & Sons, Chemists, Horncastle.

WOODSTOCK.—Wanted, Junior Assistant (indoors), one just finished apprenticeship not objected to, for Dispensing and General Country Agricultural business; no heavy trade; photography; hours easy, very little on Sundays. F. G. Gudgeon, Woodstock, near Oxford (Blenheim Station, G.W.R.).

WORCESTER.—Outdoor Assistant, for the Dispensing-counter. Apply, with photo, stating age, height, and experience, to E. J. Kitson, The City Drug Stores, Worcester.

WREXHAM.—Wanted, an experienced, competent Assistant; aged from 25 to 35; must be energetic, businesslike, and used to country trade; if able to speak Welsh preferred, but not essential; a permanency; outdoors. Apply, enclosing carte, and giving names of references, terms, &c., L. Rowland & Co., Chemists, Wrexham.

YORKSHIRE.—Wanted, about the end of June, an Improver, or turn-over Apprentice, for first-class Dispensing house. State height, age, and enclose photo (to be returned) (indoors), 174/16, Office of this Paper.

AN Assistant; good Extractor; to live on business premises, house unfurnished. T., the Medical Hall, Dartford, Kent.

BRADLEY & BLISS, Reading, require, at the end of present month a qualified Dispenser for a first-class business; aged from 25 to 30. State full particulars of experience, salary required, and enclose photo if convenient.

IMMEDIATE.—Branch Manager, about 30; Minor; single or married; seaside, South Coast. State full particulars as to salary, experience, &c.; must be an all-round man; send photo if possible. A., c/o Wright, Layman & Umney, Southwark Street, London.

JUNIOR wanted for Drug Department for large concern in the North. State age, experience, and salary required, to Box 164, Sell's Advertising Offices, London.

JUNIOR Assistant wanted, at once, for a fortnight during temporary absence of principal; salary, 40s. a week, out of doors; light work. Griffith, 11 South Street, Chichester.

JOHN BARKER & CO. (LIM.), Kensington, W., require a Counter Assistant, indoors; hours 8 to 7, 2 o'clock Saturdays, no Sunday duty; personal application necessary.

LOCUM TENENS.—Wanted, for two or three weeks in July, an able Assistant, for Dispensing; a knowledge of Homœopathic Pharmacy indispensable. Apply, stating age, experience, salary required (outdoors), &c., to M. D., 79 Denmark Hill, London, S.E.

LOCUM.—Lady wanted as Resident Dispenser early in July. "Dispenser," Victoria Children's Hospital, Hull.

SITUATIONS OPEN—cont.

RETAIL—continued.

MANAGER wanted—must be qualified, married, preference given to one whose wife can take an active part in conducting the business—to take charge of a good (chemist's) business in a busy locality, close to the City. Write, stating fullest particulars, age, salary, family (if any), and references (which must be excellent). Address, P., 8 Denver Road, Stamford Hill, N.

MAY'S DRUG STORES (LIM.), require a qualified Dispenser for their Branch, 31 High Street, Clapham. Apply on the premises.

QUALIFIED Assistant required. Apply, with full particulars, to H., c/o Mr. S. W. Ord, 3 Hanover Street, Hanover Square, W.

QUALIFIED Manager wanted at once; used to general Store trade; good salary to competent man. Give full particulars in first letter, and enclose photo, if convenient, Magor, Ltd., Birmingham.

QUALIFIED indoor Assistant, about 26, required, for high-class Dispensing and Retail business. Address, stating experience, height, salary, &c., and enclosing photo (to be returned), to T. Woodruff, Ph.C., 43 Lapping Lane, West Didsbury.

QUALIFIED Assistant; outdoors; good character indispensable; 5 Assistants kept; closed Sundays, evening off each week. Send photo (to be returned) and full particulars to Wm. Fox & Sons, 109 and 111 Bethnal Green Road, London.

QUALIFIED Dispenser wanted; outdoors; easy hours, no Sunday duty. Apply by letter, stating age and salary required, to Q. D., 136 Queen Victoria Street, E.C.

QUALIFIED Dispenser for West-end Hospital wanted, aged 25 to 35; hours, 10 to 6; salary £75, with dinner and bed. Write, with particulars, to "Hospital," E. J. Reid, 11 Dundas House, Basinghall Street, E.C.

QUALIFIED Senior and Junior Assistants, to reside outdoors, for a modern Pharmacy in London suburbs; excellent opportunity for Senior with good business ability and experience; hours not long. State salary expected, &c., "Juniper" (31/66), Office of this Paper.

QUALIFIED Dispenser required at once; must have had good London experience; commencing salary 35s. per week with dinner and tea daily; hours of business, 8 to 7; Saturdays 2. Apply, with full particulars, to Richard Burbidge, Esq., Managing Director, Harrod's Stores (Limited), Brompton Road, London, S.W.

QUALIFIED Assistant (outdoor) for South Coast; one used to high-class up-to-date business; married or single; easy hours, good prospects, and a permanency. Apply, stating salary, experience, &c., to "Otto" (31/67), Office of this Paper.

T. DAVIES, Pharmaceutical Chemist, Porth, Glam., has a vacancy for a Junior Assistant; hours easy; half-holiday weekly.

TWO qualified Assistants wanted. State age, height, salary required, with reference, to Wand, Cash Chemist, 18 Haymarket, Leicester.

UNQUALIFIED Assistant required, with experience of cash business preferred, for a London branch. Give full particulars of age, salary, experience, &c., "Manager," 80 Borough Road, S.E.

WANTED, married Assistant, qualified, to manage business, and live on premises. Full particulars as to age, salary, and references, to 172/14, Office of this Paper.

WANTED, a qualified Dispenser, for a high-class business in the West-end; outdoors; light hours. Apply to Y., c/o Davy, Hill & Son, 64 Park Street, Southwark, enclosing photo and full particulars.

WANTED, about 20th June, a young gentleman, aged about 24, as indoor Assistant; must be good Dispenser; qualification not essential. 31/55, Office of this Paper.

WANTED, in a Dispensing and Light Retail business, a Junior or qualified Assistant, with some knowledge of Postal and Telegraph duties (single needle). Address, full particulars, age, experience, and salary required, A. B. (177/24), Office of this Paper.

WANTED, Branch Manager; permanency to a steady, reliable, pushing man. Apply, Pare, Bolton.

MONMOUTHSHIRE ASYLUM, ABERGAVENNY.

WANTED, a Dispenser, who must have a knowledge of Photography and who will be required to act as Photographer to the Institution; salary £120 a year, no allowances, and hours from 9 A.M. to 5 P.M. Applications, stating age, and whether married or single, with recent testimonials, to be sent to the Medical Superintendent, on or before Wednesday, the 21st June.

WHOLESALE.

CAPE TOWN.—Good Man for Wholesale required, about July; commencing £10 per month; good prospects; abstainer preferred. State age, qualifications, and references, F. M. (23/59), Office of this Paper.

LONDON.—Wanted, an Assistant (not necessarily qualified) to work in Manufacturing Laboratory. Apply, with full particulars as to experience, to 170/23, Office of this Paper.

CLERK wanted, for Hamburg correspondence, shorthand, and if possible typist, for Pharmaceutical Specialities and Drug business; also young gentleman who is desirous of learning the language and German business experience. Advertiser will be in London from June 19th to the 24th, at the Manchester Hotel, Aldersgate Street, E.C., for personal interview. Apply, stating experience and salary required, to Otto Furst, Esq., Hamburg.

HAMILTON, LONG & CO (LIMITED), Apothecaries and Chemists, 3 Lower Sackville Street, Dublin, require a Chemist to take charge of their Laboratory; must be experienced in Analytical and Pharmaceutical work, and possess a knowledge of the manufacture of Mineral Waters; state experience and salary expected. They also have a vacancy for an Assistant (indoor) for the Retail counter. State age, height, salary, and experience, and enclose photo.

PILL Department. Wanted, a strong youth experienced in rounding both by hand and machinery. Apply, Heaton, Squire & Francis, 38 Southwark Street, S.E.

SMART man, to Manage London Depot; must be young, qualified, and experienced. Full particulars, in confidence, to B. B. (30/23), Office of this Paper.

TRAVELLER wanted for the country, to represent London house in Photographic and Lantern apparatus; first class man. Apply, with full particulars, to W. Butler & Son, Blackheath, London, S.E.

WANTED, thoroughly competent Pill Maker; preference given to one acquainted with the coating process; good salary to a suitable person. Write, stating full particulars, together with previous experience and references, to 172/3, Office of this Paper.

WHOLESALE.—Export Clerk wanted; must be experienced in pricing and invoicing. State age, experience and salary required, "Export" (29/53), Office of this Paper.

WHOLESALE.—Junior Assistant required, accustomed to Pellet and Pill Making. Apply, by letter only, to X. Y. Z., c/o Messrs. Gooding & Co., 16 Aldersgate Street, E.C.

WHOLESALE Druggists.—Dry Counter.—Good Foreman, age about 25, wanted, to control four or five hands. State experience and wages required to "G. L.," c/o Streets, 30 Cornhill, E.C.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

QUALIFIED; 30; outdoors. 178 12, Office of this Paper.

LOCUM; qualified; disengaged; age 23. Stokes, 45 Stapleton Road, Bristol.

LOCUM; day or more; good Prescriber. "Chem," 4 Mayfield Road, Dalston, N.

LOCUM-TENENS or Branch Manager; qualified. Jelley, 27 College Road, Kensal Rise.

LOCUM-TENENS; qualified; disengaged. Wellings, 259 Broad Street, Birmingham.

LOCUM; Chemist, Surgeon, or Institution; qualified. W. M., 166A Pentonville Road, N.

ASSISTANT; 22½; 5 ft. 6 in.; 6 years' experience. "Aloin" (178/9), Office of this Paper.

MANAGER or Assistant; qualified; 34; good references. Weaving, Fyfield Wick, Abingdon.

QUALIFIED; tall; 25; good experience; disengaged. "Hex" (176/2), Office of this Paper.

LOCUM; Major; 24; good London experience; disengaged Monday. Payne, Market Parade, Ilford.

AS Dispenser to Surgeon, or Institute in London. "Cheulcus," Gleanmor, Essex Road, Basingstoke.

QUALIFIED; 23; North and outdoors preferred; July 3. J. W. S., Rocklea, Brookside, Windermere.

LOCUM-TENENS; day or week. long, varied experience. F. O. S., 63 Devonshire Road, Holloway, N.

LOCUM.—Disengaged June and July; qualified; highest references, &c. J. L., 18 Beecher Street, Oldham.

LONDON, S.E.; disengaged; 22; mornings, evenings; Chemist or Surgeon. 177/21, Office of this Paper.

A BROAD.—South Africa preferred; aged 24; good references; unqualified. 178/19, Office of this Paper.

COUNTERMAN: unqualified; Stores experience; disengaged; outdoors. N., 18 Prebend Street, Islington.

LOCUM; 20 years' experience as; disengaged 28th. Davie, 2 Bank Buildings, Wightman Road, Horney, N.

ASSISTANT; 25; 5 ft. 9 in.; 11 years' experience; outdoors preferred. "Rhei," 79 High Street, Croydon.

CHEMIST, out of business, wishes to re-enter trade; small salary first year. B., 45 Falmouth Road, Borough.

ASSISTANT; 22; unqualified; references; Photography; Midland preferred. "L." (160/23), Office of this Paper.

LOCUM-TENENS; Major man, at present disengaged; excellent references. A. B., 20 Royal Exchange, London.

ASSISTANT; 30; married; outdoors; Dispenser, Prescriber, Extractor. K., 82 St. Mary's Road, Peckham, London, S. E.

JUNIOR; aged 22; 5 ft. 9 in.; disengaged; 5 years' good experience. "Pharmacy," 5 Gloster Place, Newtown, Malvern.

HOLIDAYS; temporary; experienced; qualified; disengaged June 19. "Chemist," 12 Wellington Place, Hastings.

ASSISTANT or Branch Manager; outdoors; qualified; 24; please state hours, &c. "Radix" (172/29), Office of this Paper.

SENIOR or Manager; Minor qualification; high-class West-end and South-coast experience; outdoors. 175/19, Office of this Paper.

ASSISTANT or Branch Manager; Stores preferred; 27; tall; good experience and references. "Drugs," 159 Bath Row, Birmingham.

ASSISTANT; unqualified; 21; Newcastle district; time for study; amateur photographer. "Preliminary" (173/5), Office of this Paper.

AT liberty, thoroughly experienced Assistant; 37; single; permanent or temporary; unqualified. "Abstainer," 48 High Street, Uxbridge.

ASSISTANT; unqualified; 27; tall; West-end experience; Prescriber; disengaged; good references. W. (175/30), Office of this Paper.

JUNIOR Assistant requires situation, until August 18, in first-class house in suburbs of London. Andrews, 3 Bridge Road, East Molesey, Surrey.

LOCUM; Manager, Assistant; qualified; good references; with view to early succession, genuine business in town. 131 Regent Street, London.

TEMPORARY or permanent; qualified registered Dentist; well up; good appearance. 80 Abbey Road, West Ham Lane, Stratford, London.

PART-TIME; Assistant or Dispenser; morning, evening; good varied experience; 10 years' reference. "Chemist," 84 Kingsdown Road, N.

LOCUM or Permanent; over 20 years' all-round experience; first-class references; qualified; disengaged. George Marden, Floral House, Chertsey.

PRACTICAL Dispensing experience required by Lady, from September; doctor's house preferred. State terms, 171/12, Office of this Paper.

MANAGER (Branch); qualified; 38; married, no family (live on premises); Manchester district preferred. Apply, 175/7, Office of this Paper.

QUALIFIED; 25; 7 years' London experience; outdoors preferred; good Dispenser; excellent references. "Rbenm" (175/9), Office of this Paper.

ADVERTISER, aged 54, lately Manager (5 years) of large high-class business, seeks temporary or permanent engagement. 176/14, Office of this Paper.

COUNTERMAN; 33; unqualified; thorough West-end experience; Store trade; good salesman; permanency. "Alpha," 70 Perrymead Street, Fulham, S.W.

TO Dentists.—Experienced gentleman desires engagement one or two days weekly; would undertake mechanical work. "J.," 133 Praed Street, Paddington, W.

ASSISTANT; 10 years' thorough all-round experience; well recommended; outdoors preferred. L. H. C., Brighton Villas, Hughenden Road, High Wycombe.

QUALIFIED; 22; outdoors; tall; 4 years' country experience; highest references; accurate Dispenser. Full particulars, Benson, Earnside (Kirkby Lonsdale).

OCUM; qualified; 24; agricultural town and London Dispensing experience; Extractor, &c.; few vacancies; state dates. T. E. F., Market Place, Leigh, Lancs.

MANAGER or Senior; 28; qualified; first-class experience; scientific and Photographic apparatus; excellent salesman; outdoors; highest references. 173/37, Office of this Paper.

QUALIFIED, aged 21, desires engagement in Manufacturing Laboratory; 4 years' Wholesale experience; excellent reference; London preferred. W. S. F., 118 Evington Road, Leicester.

ASSISTANT; 23; experienced; unqualified; Photography, Dispensing, and Agricultural, and accustomed to first-class trade; disengaged end of July; references. Smith, c/o Barker, Chemist, Windermere.

ASSISTANT-MANAGER; 35; 15 years' first-class all-round Town experience; smart counter hand and Prescriber; season or permanent; disengaged Monday. "Brisk Trade," 41 Tottenham Court Road, W.

MANAGEMENT; aged 35; 20 years' good-class experience (West-end); tall; unqualified; can invest capital, and would entertain minor Partnership; good salesman and Prescriber. Apply, "Robur" 76/15, Office of this Paper.

UNQUALIFIED; Retail or Wholesale; London and country experience; aged 40; married, no family; active, sober, and reliable; good references; moderate salary. "Drugs," Bennett, 18 Thornhill Bridge Place, Cheltenham Road, London.

COMPETENT, all-round Assistant; smart Dispenser and Salesman; good Prescriber; 20 years' varied experience; thoroughly reliable; highest references; would not object to travel. Fullest particulars to "Litmus" (172/10), Office of this Paper.

GERMAN Apothecary Assistant wants, by October 1 next, easy situation for 1-1½ years as Assistant with a Chemist and Druggist; advertiser speaks English, and has first-class testimonials; International Drug Stores preferred. Please address, H. P., 1, 103, c/o Rudolf Mosse, Hamburg.

WHOLESALE.

TRAVELLER; 27; Drugs, Sundries, or allied trades; experienced; excellent references. "Traveller," 5 Bond Street, Hatford Square, W.O.

TRAVELLER, with good connection with Chemists, &c., desires re-engagement; good references. "Disengaged" (176/39), Office of this Paper.

TRAVELLER, with good connection among the best trade, desires re-engagement; South Coast and West preferred. Address, L. (170/25), Office of this Paper.

AS Traveller to first-class firm; London preferred; qualified Chemist; Retail and Country Wholesale experience; good appearance and references. A. B. (174/1), Office of this Paper.

TRAVELLER.—Energetic young gentleman, with sound connection Chemists, Grocers, and Stores in West Riding and Midlands, seeks berth. "Successful," 12 Queen Square, Leeds.

ADVERTISER, with good connection, is open to negotiate for good commission in Northumberland, Durham, and South-East of Scotland. Address, W., County Hotel, Newcastle.

GERMAN (25), Wholesale Druggist, correspondent, bookkeeper, typewriter, seeks situation; good knowledge of English and French; highest references; salary no object. "Acid," 12 Eltham Road, Lee, S.E.

ADVERTISER seeks situation as Buyer or Wholesale Manager; Pharmacist; experienced in all departments; thorough knowledge of markets; first-class references; disengaged shortly. 168/14, Office of this Paper.

PRACTICAL Perfumer.—A gentleman (French), speaking English, who has served his time with one of the leading French Perfume Manufacturers, and having a thorough knowledge of the business, is desirous of obtaining a situation in England. Apply, Mr. Vivandon, 213 Peckham Rye, London, S.E., for particulars.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

DAISY (LIMITED), Leeds, will be happy to advertise (at reasonable rates) in Chemists' Lists, &c., &c.

AMMONIA SODA.—Specialist in Continental Fabrik desires berth, or correspondence to erect such a works; 10 years' experience; also Bleach, Leblanc, and Caustic Soda, &c. Q., c/o Street & Co., 30 Cornhill, London.

PRIVETT'S TEMPERANCE HOTEL (Close to the Pharmaceutical Society, Bloomsbury Square).—Bedroom with Breakfast 3s. 6d.; Board by arrangement; hot and cold baths; omnibuses to all parts of London. 68 Southampton Row, Russell Square, London, W.O. N.B.—The number of this Hotel is 68.

SULPHUR TABLETS, ½ cwt. at 34s., 32s. cwt., 2 cwt. at 31s.; send 6s. for 14 lbs., post free. Bland's Pills, 100 gross at 2d., 500 gross at 1½d., 1,000 gross at 1¼d.; in 1-gross lever-lid tins, handsomely labelled, at 30s. gross; bottles 36s.; samples free. Sticky Fly-papers, 4s. 6d. gross, 5 gross 20s. Hope & Co., 462 Holloway Road, N.

BOXES.—Light wood boxes of every description, hinged or nail lids, planed or unplanned, suitable for packing all kinds of articles; cheapest, strongest, and best in the market; quotations by return post; sample 6 stamps; list free. Write for sample and prices, stating sizes required, to E. Casbon, Huntly Grove Box and Joinery Works, Peterborough.

"PRIMUS" SULPHUR TABLETS.—1 cwt., 32s.; 2 cwt., 31s.; 5 cwt., 30s., carriage paid. Sulphur and Sarsaparilla same price; samples free. Send 3s. 6d. for 7-lb. box, post free. Bland's Pills, 100 gross at 2d., 500 gross at 1½d., 1,000 gross at 1¼d., 1 gross tins at 30s. gross. Disinfecting Shells, 4s. 6d. gross, 5 gross at 4s. gross. All carriage paid, Christy & Co., Smitfield Laboratory, Curzon Street, Leicester.

100% PROFIT ensured by selling Curic Wafers, the absolutely safe and certain cure for Headache, Toothache, and Neuralgia. Striking window show, with mechanical attraction, for one dozen order (9s.) P.A.T.A., at face value. A really sound Chemists' line, giving the utmost satisfaction to Chemists and their customers. Write for particulars to The Curic Co., Leadenhall House, London, E.O.

MISCELLANEOUS—cont.

THE GREAT AUSTRALIAN REMEDY.—The proprietrix of the Patent and Trade-mark Rights of the Great Australian Remedy for Catarrh, Influenza, and all Bronchial and Throat Affections, is desirous of disposing of these rights. The remedy has a wonderful reputation in Australia, especially in New South Wales, where it enjoys a good sale purely by recommendation. Full particulars will be given to any inquirer with a view to purchase. The speciality is one which might be worked up in Great Britain into magnificent returns, as Australian siugers consider it invaluable. 6/7, Office of this Paper.

SHOP-FITTINGS.—Special Job Lines.—6-ft. dispensing-screen, bevelled-edged plate-glass mirror centre, show-cases on each side, mahogany and plate-glass counter under, with marble-top sponge-case in centre, £12 10s.; 12-ft. mahogany and plate-glass counter, £10; 10-ft. do., £8; 8-ft. wall show-case, 8 ft. 6 in. high, with mahogany-top recess £10 10s.; 6-ft. do., £7 10s.; 12-ft. complete wall-fixture, 60 mahogany-fronted drug-drawers, glass labels and cut-glass knobs, lockers, cornice, shelving, and pilasters, £12 10s.; plate-glass perfume-case and desk, 45s.; shop-rounds, pair handsome swan-neck carboys, cut stoppers and mahogany stands, 50s.; &c., &c. Philip Josephs & Son, 54, 68, and 93 Old Street, London, E.C.

CHEMISTS' Shop-fixture.—Ranges mahogany drawers, with bevelled edge glass labels and cut-glass knobs, shelving above, lockers below mahogany dispensing-screens; counters with glass-case fronts; wall-cases bent-front and flat-top counter-cases; counter-desks; tooth-brush cases complete shop-rounds, &c.; every requisite for Chemists, new and second hand; extensive stock to select from, at extremely low prices; practitioners sent to all parts; estimates free. Matthews, Chemists' Fitter, 14 & 11 Manchester Street, Liverpool; Works: 9 Preston Street. Telephone 6695

SULPHUR TABLETS AND SULPHUR & SARSAPARILLA TABLETS.

TWO cwt. at 36s.; one at 38s.; $\frac{1}{2}$ cwt. at £1 1s. 1d., carriage paid Sulphur and Sarsaparilla, 45s.; 2 cwt. 42s.; $\frac{1}{2}$ cwt. £1 4s. 6d. Samples free. A sample 7-lb. box free for 3s. 9d. Splendid show price cards and labels free. White, Chemist, Leicester. Largo buyers special quotations.

ROUSE'S DICTIONARY OF SYNONYMS.

FOR the Use of Chemists, their Assistants, and Apprentices. Contains between 4,000 and 5,000 references. The most complete work of its kind; clears up doubtful and obscure points; prevents mistakes; safeguards against accidents; invaluable at the Dispensing and Retail Counters. Price 1s. post free, from the compilers, Rouse Bros., 61 Charlotte Street, London, W., or through any Druggists' Sundriesman.

No Pharmacy complete without it

Exchange Column—Bargains.

$\frac{1}{2}$ d. per word with name and address. 1d. per word if we register the address and attach a number.

No Advertisement inserted for less than 6d.

Remittances payable to EDWARD HALSE, and crossed MARTIN'S BANK, LIMITED.

FOR DISPOSAL.

APPARATUS.

Platinum crucible, with lid, for sale; weight 22.6 grams; what offers? HUDSON, Chemist, Cranbrook.

As new, set of 11 best-plated dental-forceps and mirror, in leather pouch; cost 92s., price 42s. P., 295 Coventry Road, Birmingham.

Twenty-cell continuous-current Leclanché battery (Maw's); good condition, only requires re-charging; procured for clerk with writer's cramp, not now required; cost 4 guineas; any reasonable offer. STEPHENS, Chemist, Stone.

DRUGS AND CHEMICALS.

Four 25-oz. tins quin. sulph. (German), 1s. 5d. oz., cash with order. CLARKE, Woburn, Beds.

PROPRIETARY ARTICLES.

Valnera tea, $2\frac{1}{2}$ doz. 1s. $1\frac{1}{2}$ d., 7s. doz. or exchange saleable patents, or offers. BIRKBECK, Chemist, Lincoln.

Chapman's foot-rot ointment, several doz. new, never unpacked; 1s. 6d. ship at 6s. a dozen. JAGO, Chemist, Othertsey.

3 doz. 1s. boxes ovaline soap, 7s. doz., 20s. the lot; 1 doz. 1s. $1\frac{1}{2}$ d. Mellin's emulsion, 8s. 6d., 1 doz. 2s. 6d. ditto, 18s.; carriage paid. SEELY, Halifax.

2s. 9d. Cowland's skin-lotion, 1s. 6d.; 3 10s. 6d. Rupert's skin-cream, 15s.; 2s. 9d. Dunbar's alkaram, 1s.; 34 1s. Budden's mineral-water salt, 17s.; 11 1s. 9d. Thompson's liver-salt, 11s.; 2 2s. 9d. Wright's pearl-ointment, 3s. 6d.; 2 4s. 6d. Kehotah kidney-tea, 5s. BROADBENT'S BON MARCHÉ, Southport.

SHARES.

Uister Chemists, Limited, Belfast; offers wanted for 50 per cent. preference shares. 172/12, Office of this Paper.

SHOP FITTINGS.

Complete fittings of chemist's shop, second-hand; will be sold cheap. Particulars from W.M. FORGIE, Chemist, Falkirk, N.B.

Mortars and pestles, No. 5, 2s. 8d., No. 6, 3s., No. 8, 4s. 9d.; No. 6 pestles, 9d.; 7-pint marble mortar, 5s. CULLEN, Chemist, Norwich.

Handsome mahogany desk, 4-ft. embossed plate-glass screen, similar Maw Fig. 16, cost £12. Offers to 176/12, Office of this Paper.

Two 12-gall. pear-shaped carboys with cut stoppers, as fig. 1 Maw, 25s. each; 5 2-gall. ditto, 3s. 6d. each; 1-gall. tincture-press, nearly new, fig. 26 Maw, 20s.; 12 blue syrup-bottles, plug stoppers, good gold labels; 3 doz. each N. and W. M. shop-rounds (quarts), 3 doz. pints, 1 doz. $\frac{1}{2}$ -pints; what offers? PARKER, Chemist, Uttoxeter.

Offers for polished mahogany nest drawers, with half-circle glass case on top, 4 ft. 3 in. long, 4 ft. 3 in. high, 9 in. deep—4 small drawers $3\frac{1}{2}$ in. deep, 6 medium ditto $4\frac{1}{2}$ in. deep, 6 larger ditto $5\frac{1}{2}$ in. deep, glass knobs; glass case, no back, 2 folding doors, stands on drawers, 4 ft. high, 4 ft. 2 in. long, 4 shelves 5 in. deep, cornice on top 4 ft. 9 in. long. Address, R. HARDING, Chemist, 27 Leyton Road, Stratford, E.

OPTICAL AND PHOTOGRAPHIC.

No. 2 Frena, perfect, cost £8 9s., price £5 5s.; No. 2 Kodak, cost £7, price £3; approval. ANTHONY, Chemist, Bedford.

Kodak No. 4 regular, in splendid condition, complete with leather case; cost about £10 10s., will accept £4. VINCENT, 460 Holloway Road, N.

Half-plate Lancaster's brass-bound instantograph, case, 3 slides, 1 brass-bound, rapid rectilinear lens, Thornton-Pickard shutter, cash £5 10s.; Tyler's A1 burnisher, cash 12s.; both in good condition. KIRBY, Battenberg Villas, Maltou, Yorks.

MISCELLANEOUS.

Sixteen mahogany chronometer and other cases; offers. ROBBINS, 118 Fenchurch Street, London.

Water-bed, with funnel-centre, 72 in. by 36 in., never used; also bandage-roller, as Maw's fig. 209; what offers? ROLLETT, Chemist, Wrentham, Wargford.

British Pharmacopœia, 1898, and set of 85 fine materia medica specimens, 12s. 6d. lot, cannot separate; also new set scaling and stopping instruments (Maw's), cheap. CULLEN, Chemist, Norwich.

6 doz. fine toilet-sponges, 12s. doz., sample post free 1s. 1d.; 6 doz. high-class perfumes, in gold-embossed cartons, cut stoppers, 15s. and 20s. doz., retail 2s. and 2s. 6d., sample 1s. $4\frac{1}{2}$ d., 1s. 9d., post free; $1\frac{1}{2}$ doz. 2s. 9d. size Norton's pills, 1s. 10d. each; 12 doz. Dobson's black-leg drinks, 1s. 6d., 3s., and 5s. 6d., half face-value; all carriage paid. DRUG STORES, 13 Church Street, Castleford.

Two mahogany show-jar stands, about 16 by 7 in., as Maw's fig. 2, 20s.; mahogany dental-cabinet, 20 in. high, 16 wide, 10 deep, 5 drawers with lock, 17s. 6d.; dental-lathe for surgery, as Lepper's, page 5, hinged hood complete, 32s. 6d.; cork-presser, 2 suppository-moulds for 6 (plated), 2 twine-boxes ($\frac{1}{2}$ and $\frac{1}{4}$), the lot 7s.; above all in good condition; what offers for 8 years' Chemist and Druggist, also 4 years' Pharmaceutical Journal? MOORE, Chemist, New Southgate.

Glass Bottles.—3 gross $\frac{1}{2}$ -oz. actinic green round-shouldered vials, stoppered, 9s. 6d.; 1 gross $\frac{1}{2}$ -oz. ball-shaped stoppered perfumes, 12s.; 15 gross 2-oz. screw nickel-capped pomades, 9s.; 2 gross 2-dr. white ovals, 3s.; 9 gross 1-oz. white flats, 4s.; 8 gross 4-oz. blue wide-mouth direct squares, 6s.; 8 gross 2 dr. homœopathic vials, spouted, 2s. 6d.; 17 gross 2 oz. white fancy perfumes, 6s.; 23 gross 3-dr. heavy round-shouldered vials, 3s.; 20 gross $\frac{1}{2}$ -oz. Cannon essences, 4s. per gross; 3 gross 6-oz. white flint Lubins, 16s. 6d. per gross. Samples sent for stamps 6d. Apply, HEARNS, LIMITED, Lea Bridge, Clapton, London, N.E.

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Camwal shares. State number and lowest price to LAWRENCE, Chemist, Rhyl.

Small tincture-press, cheap. WHITBY & Co., Chemists, Winsford, Cheshire.

Outside lamp for dentist; cheap. HAMBRIDGE, 12 Glasshouse Street, Piccadilly, W.

Old electric lamps and scrap platinum. P. ROWSKILL, 9 Derwent Grove, East Dulwich, London.

One 12 and 2 or 3 gallon pear-shaped carboys. State price to WHITELAM, 48 Waterloo Street, Hull.

Sifting and mixing machine, counter size, to break down lumps; also apparatus for drying chemicals. M., 114 Church Street, Croydon.

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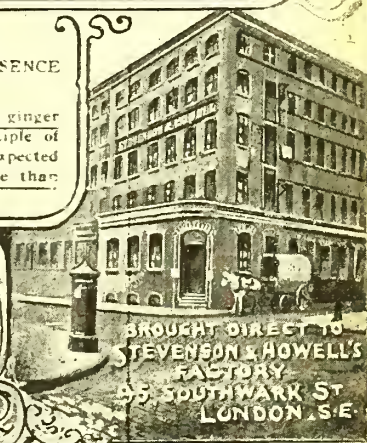
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THE LADY'S PICTORIAL says:—"Nothing is more important in matters of the toilet than the care of the hair, and we can recommend our readers with confidence to use an excellent preparation called Curtiss's Spanish Julep. It is a pleasantly fragrant hair wash of most cleansing properties, and it also promotes the growth of the hair as well as making it beautifully glossy. It is very simple in application, and inexpensive, a small quantity being mixed with warm water for shampooing purposes. Cleanly and agreeable in use, as well as in its effects, Spanish Julep is a welcome addition to the equipment of our dressing-rooms, and Messrs. Curtiss should find it widely appreciated by ladies who are anxious to keep their hair in healthy and beautiful condition, as it promotes the growth as well as improving its appearance."

THE LADY'S COMPANION says:—"One of the best dressings for the hair I have ever come across. Some time ago I tried this Julep, and was delighted with the rapidity with which my head was cleansed, the hair being rendered soft and glossy. . . . I feel sure it will supersede all other preparations of the kind."

OUR HOME says:—"Gives a delightfully refreshing feeling. . . . We recommend our readers to send for a bottle, feeling sure that they will be quite gratified with the results."

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Price 12/6 per doz., from the following—

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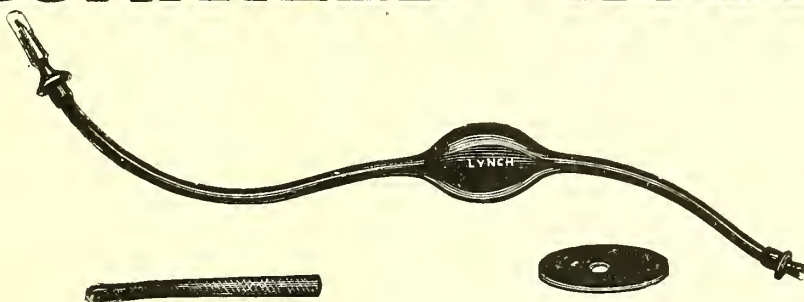


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Same as above, but in Grey Rubber, complete,

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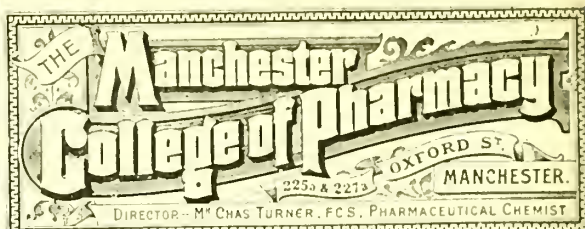
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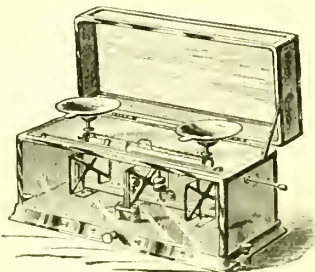
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Manufactured expressly for the Dispenser's Use.

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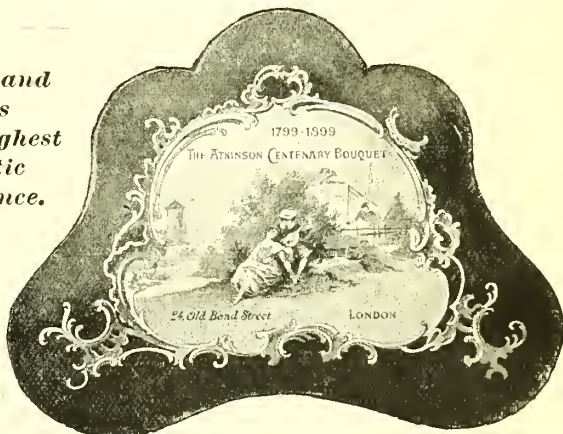
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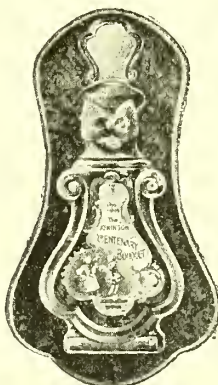
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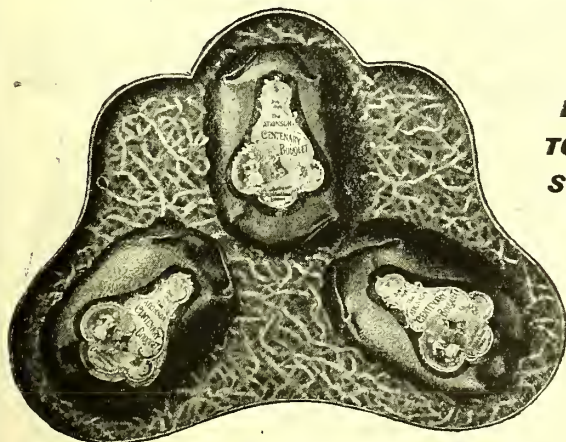
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"	"	---	---	---	1 0	10 0
"	"	---	---	---	1 9	18 0
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"	LAROLA TOILET POWDER	---	---	---	1 0	10 0
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"	"	---	---	---	1 0	10 0
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**BEETHAM'S
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**IT HAS NO EQUAL FOR
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LANCE PERFUMES

See references in the Winter Number of THE CHEMIST AND DRUGGIST,
January 28th, to the Editorial Notices in

THE QUEEN, ILLUSTRATED LONDON NEWS, BLACK AND WHITE,
THE GENTLEWOMAN, THE LADIES' PICTORIAL,
THE WORLD, TRUTH, etc.

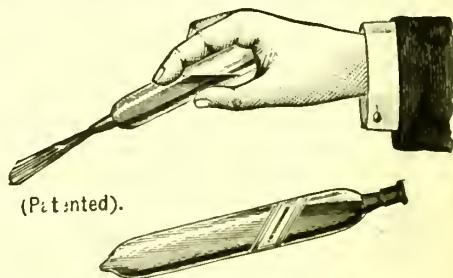
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£20 First Prize, £10 Second Prize, £5 Third Prize.

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MARVELLOUS PREPARATION.

Refreshing as a Turkish Bath.

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BAISS BROTHERS & CO.

H. E. STEVENSON & CO.

4 JEWRY STREET, E.C.

130 SOUTHWARK STREET, S.E.

1st June, 1899.

We beg to notify our friends and the Drug Trade generally that we have amalgamated our respective businesses, which will henceforth be carried on under the style of

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All communications should be addressed to

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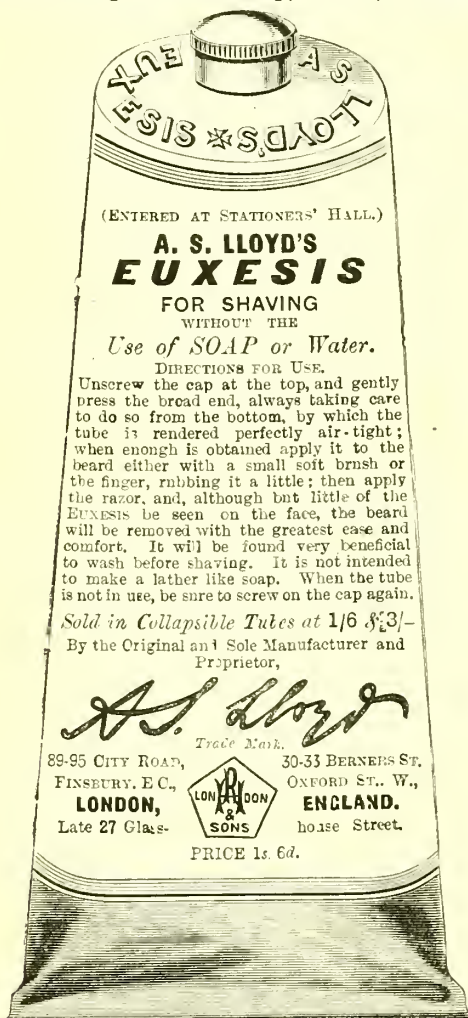
We take the present opportunity of thanking all customers of the respective firms and others, with whom we have had such pleasant transactions extending over a number of years, and hope to still further justify their confidence in the future, from the increased facilities we shall enjoy.

(Signed)

BAISS BROTHERS & STEVENSON.

A. S. LLOYD'S EUXESIS**(THE GENUINE).**

For Shaving without Soap, Water, or Brush.

Sold by all Perfumers and Chemists
throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-mark, and Goodwill of the celebrated Euxesis, the Trade are Cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses at the following prices:—

10/- per dozen, 9/6 by the 3 dozen, 9/- by the 6 dozen.
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LEATHER.

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INDEFINITELY.

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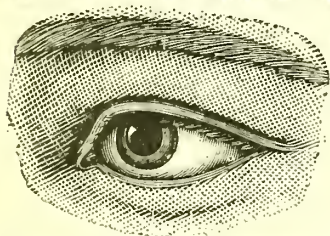
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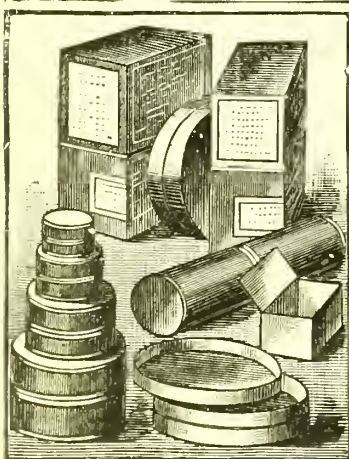


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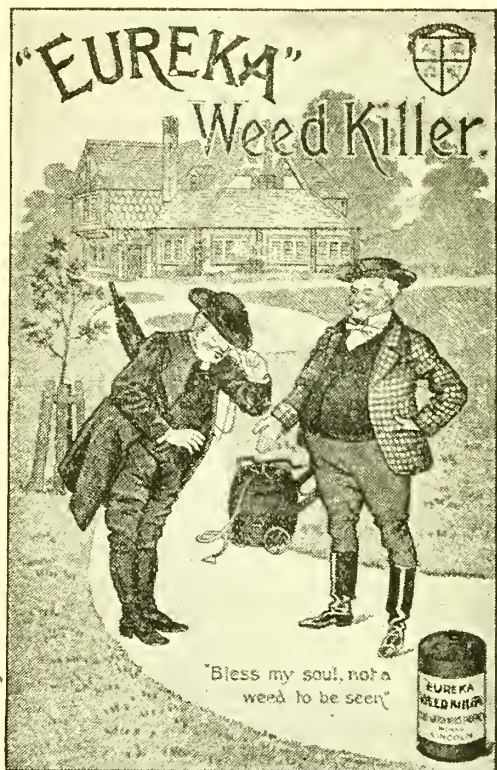
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Wyley, E., Lim.

DYES

Crawshaw, E., & Co.
Item Household Dye Co.

EAU DE COLOGNE

Farina, J. M.
Sainsbury, S.
Van Oppen & Co.

EMBROCATION

Day & Sons
Elliman, Sons & Co.
Harvey & Co.
Poe, A. M., Lim.
Sanitas Co., Lim.

ESSENCES

Allen & Hanbury, Lim.
Barnett & Foster
Burgoyne, Burdidge & Co.
Bush, W. J., & Co.
Dighton & Smith
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.
May & Baker, Lim.
Newhall & Mason
Stevenson & Howell
Woolley, J., Sons & Co., Lim.

FLUORIDES, &c.

Beecham, T.
Beetham, T., & Son
Dunant & Co.
Forster, G. G.
Hovenden & Sons
Jewsbury & Brown
Mason, C. E., & Co.
Jillapier Co.
Stevens, P. A.
Sutton, O., & Co.
Woode, W. (Aroca Nat)

GLUE

Barclay & Sons, Lim.
Brauer, A.

GLYCERINE

Frank & Co.
Haller, G., & Co.
Priore's Candle Co., Lim.

GRANULAR PREP.

Bishop, A., & Sons
Evans, Gadd & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Lothhouse & Saltmer
Tyler, T., & Co., Lim.
Wright, Layman & Umney

HERB BEER EXTS.

Greenwood & Co.
Newhall & Mason
Potter & Clarke

HAIR PREP.

Cheesebrough Co.
Edwards & Co.
Hogood's Hair Cream
Thiellay, E. H.

HOMOEOPATHIC

Eppe, J., & Co.
Leash & Koss
Munyon's Remedies
Watson & Wates

HYPOPHOSPHITES

Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Tyler, T., & Co., Lim.

INHALERS

Krone & Besemann
Lynch & Co., Lim.
Munyon's H. H. R. Co.

INSECTICIDES

Bleasdale, Lim.
Calabrese, J., & Co., Lim.
Fleming's Oil & Chemical Co.
Lim.
Jackson, T.
Tunbridge & Wright

LANTERN SLIDES

York & Son

LAVENDER WATER

Sainsbury, S.

LEMON PEEL, &c.

Southwell, C., & Co.

LIME JUICE, &c.

Jdris & Co., Lim.
Riddle, Alexander & Co.

LINT

Burgoyne, Burdidge & Co.
Christy, T., & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons
Wood, Vincent

LIQUORICE

Evans, Gray & Hood ("Solais")
Evans, Sons & Co. (Savarini)
Hillaby, J.
Jeancard, Gasan & Doumin

LIQUORS

Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Oppenheimer, Son & Co., Lim.
Stevenson, H. E., & Co.

LOOFAHS

Solport Bros.

LOZENGES, &c.

Allen & Hanbury
Denoual, J.
Gibson, H., & Sons (Manfre.)
Guest, T., & Co., Lim.
Jackson, T.
Proctor, W. (Pastilles)
Raines & Co.
Warrick Bros.

LUNG PRESERVERS

Zimmer & Co.

MACHINERY

Bennett, Sons & Shears, Lim.
Bora, G.
Fox, Fuile & Co.
Fordham, W., & Sons
Mellin, C.
Pinder, A. W.
Werner, Pielders & Perkins, Lim.

MAGNESIA

American Magnesia Co.
Bishop, A., & Sons, Lim.
Bleasdale, W., & Co.
Henry, T. W. (Calcined)
Lloyd, T. Howard, & Co.
Washington Chemical Co.

MALT EXTRACT, &c.

Allen & Hanbury
Burgoyne, Wellcome & Co.
(Kepler's)
Hearon, Squire & Francis
Parke, Davis & Co.
Price's Patent Candle Co., Ld.
Raines, Clark & Co.
Robinson & Co.

MARKING INKS

John Bond's Crystal Palace

MEDICINE CHESTS

Burgoyne, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)

MERCURIALS

Howards & Sons
May & Baker, Lim.
Tyler, T., & Co., Lim.

METH. SPIRIT, &c.

Boord & Son | Burrough, J.
Jones & Co. | Phillips, G., & Co.

MICROSCOPES

Darton, F., & Co.
Ross, Lim.

MILK

Hawksley, T. (Sterilizer)
Lumley, L., & Co. (Sterilized)
Nestle, H. (Condensed)

MORPHIA

Macfarlan, J. F., & Co.
Smith, T. H., & Co.

OILS. VARNISHES

Calvert Bros. & Co.
Cooper & Co.
Fitchin, John & Sons
Stern Bros. (White)

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POINTMENT BASES, &c.

Burroughs, Wellcome & Co.
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Cheesebrough Co. (Vaseline)
Cooper & Co.
Lloyd, T. Howard, & Co.
Stevenson, H. E., & Co.
Thierry, A.

PALATINIDS

Oppenheimer, Son & Co., Lim.

PATENT AGENTS

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Chapman, J. C., & Co.

PATENT MEDCNS, &c.

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Bailey's Goutins
Barclay & Sons, Lim.
Beecham, T. (Pills)
Benedictine Salve
Clarke's Blood Mixture
"Daisy" Headache Powders
Edwards & Son
Evans, Leasher & Webb
Evans, Sons & Co.
Fanning (Powders)
Goodall, Backhouse & Co.
Guy's Tonic
Holloway (Pills and Oint.
Hovenden & Sons
Lageman, C.
Lalor (Phosphodyne, &c.)
May, Roberts & Co.
Nicolas & Co.
Post, A. M., Lim.
Powell, Thomas, Lim.
Richards, J. M.
Sandrons, Lim.
Thierry, A. (Balsam and Oint-
ment)

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Ransom, W., & Son
Stevenson & Howell

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Burroughs, Wellcome & Co.
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Fairchild Bros. & Foster
Newbery, F., & Sons (Ingulvin)
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Atkinson, J. & E., Lim.
Ayrton & Saunders
Barclay & Sons, Lim.
Bleasdale, Lim.
Blondeau & Cie. | Boehm, F.
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Carmichael, M. W.
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Cortyn, Stacey & Co.
Evans, Sons & Co.
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Wright, Layman & Umney

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Burgoyne, Burdidge & Co.
Burroughs, Wellcome & Co.
Bush, W. J., & Co.
Carmichael, M. W.
Cheesebrough Co.
Cook, E., & Co.
Cortyn, Stacey & Co.
Evans, Sons & Co.
Farina, J. M.
Gilbertson, H., & Sons, Lim.
Gillespie, F., & Co.
Green, R. W., & Co.
Hovenden & Sons
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London Essence Co.
Lynch & Co., Lim.
Marshall, Lim.
Mason, C. E., & Co.
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Parkes, J., & Co.
Pears, A. & F., Lim.
Potter & Clarke (Sachets)
Roberts & Sheppey
Sainsbury, S.
Sanger, J., & Sons
Schuttes, F., & Co. (Co. Lim.
Sharp Bros. Soap & Perfumery
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Van Oppen & Co.
Vigo, Jules, & Co., Lim.
West, T. (Okell's Muns)
Wright, Layman & Umney

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Ayrton & Saunders
Barclay & Sons, Lim.
Bleasdale, Lim.
Blondeau & Cie. | Boehm, F.
Burgoyne, Burdidge & Co.
Burroughs, Wellcome & Co.
Bush, W. J., & Co.
Carmichael, M. W.
Cheesebrough Co.
Cook, E., & Co.
Cortyn, Stacey & Co.
Evans, Sons & Co.
Farina, J. M.
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Gillespie, F., & Co.
Green, R. W., & Co.
Hovenden & Sons
Lanoline
London Essence Co.
Lynch & Co., Lim.
Marshall, Lim.
Mason, C. E., & Co.
Newbery, F., & Sons (Berdoes)
Parkes, J., & Co.
Pears, A. & F., Lim.
Potter & Clarke (Sachets)
Roberts & Sheppey
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Van Oppen & Co.
Vigo, Jules, & Co., Lim.
West, T. (Okell's Muns)
Wright, Layman & Umney

PILLS, Coated, &c.

Allen & Hanbury, Lim.
Beecham, Thomas
Bleasdale & Co., Lim.
Cox, Arthur H., & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hicks
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Hearon, Squire & Francis
Holloway, Professors
Kearsley, C. G.
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Powell, Thomas, Lim.
Scott's Sugar-coated Pill Co.
Smith, J. R.
Ward, S. (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyley, Lim.

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Solport Bros. (Court)
Timpson, J. C.

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Bradley & Bourdais (Albatur)
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Oakley, J., & Sons, Lim.
Raines & Co. (Block & Co.)
Spink & Son

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Bowles & Co.
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Gilbert & Rivington, Lim.
Harrison & Waite
Patent Caution Label Co.
Rivers, H.
Thomas & Co.
Townsend, J.

QUININE

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Howards & Sons
Imperial Quinine Co.
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Zimmer & Co.

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Fullwood, H. J., & Bland
Tomlinson & Hayward

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Richford, E. M.

SACCHARIN

Anglo-Continental Chemical
Works, Lim.
Saccharin Corporation, Lim.

SALICIN

Macfarlan & Co.
Smith, T. H., & Co.

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SEA SALT

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Glasgow School (J. Lothian)
Gordon's (Robt.) School
Laurence, L. (Optical)
Leeds College of Pharmacy
Liverpool School
London College
Manchester Col. of Pharmacy
Metropolitan Col. of Pharmacy
North of England School
Northern College of Pharmacy
Queensborough College
Royal Dispensary (Edinburgh)
South London School of Pharmacy, Lim.
West of Scotland College
Westminster College

SHAVING

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Lloyd, A., & Co. (A. S. Lloyd's Euxesels)

SHEEP DIP

Cooper, W., & Nephews
Fletcher Bros. & Co.
Jeyes' Sanitary Compounds Co.
Sanitas Co., Lim.

SHOP FITTERS

Alstrom, C.
Ayrton & Saunders
Bowling & Govier
Bygrave, J., & W.
Ellison, F. E., & Co.
Evans, Sons & Co.
Josephs, Philip, & Son
Maw, S., Son & Thompson
Mitchell, A.
Parnall & Sons, Lim.
Treble, G., & Son

SIZE

Meggett, S., & Sons, Lim.

SPECTACLES, &c.

Anglo-American Optical Co., Lim.
Botwright & Grey
Darton, F., & Co.
Edwards, T., & Co.
Laurence, L.
Raphael, J., & Co.
Worshipful Company of Spectacle Makers

SPONGES

British Syphon Co.
Cohen, J. & M.
Cresswell Bros. & Schmidt
Peterson, M., & Co.

SOAP

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Ayrton & Saunders
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Bronnley, H., & Co.
Calvert, F. C., & Co.
Cook, E., & Co.
Cooper & Co.
Crosfield, J., & Sons, Lim.
Gibbs, D. & W. (Medicated)
Hydroxene Co.
Mackenzie's, Dr. (Arsenical)
Pears, A. & F., Lim.
Sanitas Co., Lim.
Sharon Chemical Co., Lim.
Sharp Bros. Soap, & Co., Ltd.
Tidman & Son
Vincioia Co., Lim.
Wright, Layman & Umney

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Burgoyne, Burdidges & Co.
Daval Rubber Co.
Eschmann Bros. & Walsh
Ferrals & Co.
Galen Manufacturing Co., Lim.
Gibbs, Barton, Co., The
Gilbertson, H., & Sons, Lim.
Haywood, J. H.
Krohne & Sesemann
Liverpool Patent Lint Co.
Lynch & Co., Lim.
Macfarlan, J. F., & Co.
Matto, Lim.
Maw, S., Son & Thompson
Oppenheimer, Son & Co., Lim.
Powell & Barstow
Quelch, H. C.
Robinson & Sons
Sanitary Wood Wool Co., Lim.
Schutze, F., & Co.
Wood, Vincent
Woodruff, T.

SUGAR

Macle & Sons

SYPHONS

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British Syphon Co.
Chemists Aerated and Mineral
Waters Association, Lim.
Geraut, E., & Co.
Idris & Co., Lim.
Kilner Bros. | Mellin, O.

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Fletcher, Fletcher & Co. (Liquors)
Stevenson & Howell

TABLETS

Corsan, J. R. (Advertising)
Kahnemann & Krause
Lambert A., & Co.
Roberts & Sheppy

TEA

Thomas & Co.
Tower Tea, Lim.

TEETHING PADS

Barclay & Sons, Lim.
Marriott, E., & Co.

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Bailey, W. H., & Son
Darton, F., & Co.
Pastorelli & Rapkin

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Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Wyleys, Lim.

TOBACCO & CIGARS

Barclay & Sons, Lim.
Singleton & Cole, Lim.

TOOTH PASTE

Beecham, T.
Jewsbury & Brown
Maw, S., Son & Thompson
Parke, Davis & Co.
Sutton, O., & Co.
Woods, M. (Areca)

TRADE MARK AGENTS

Barker, Reginald W.
Chapman, J. C., & Co.

TOILET

Allen & Hanburys, Lim.
Ayrton & Saunders
Barker, F., & Son
Beetham & Son
Burroughs, Wellcome & Co.
(Lanoline)
Crosfield, J., & Sons, Lim.
Dee Oil Co., Lim.
Durant & Co.
Hovenden & Sons
Lynch & Co., Lim.
Major & Co., Lim.
Marshall's, Lim.
Maw, S., Son & Thompson
Quelch, H. C.
Sanitas Co., Lim.
Sharon Chemical Co., Lim.
Sharp Bros. Soap & Perfumery Co., Lim.
Solport Bros.
Southall Bros. & Barclay
Squire & Sons
Tidman & Son, Lim.
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Vaccine Association (Lymph)

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Orridge & Co.
Tomlinson, Thos., & Son

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VARNISHES, &c

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VASELINE

Chesebrough Co.

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Chambers, J. F.
Day & Sons
Day, Son & Hewitt
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John, A., & Co.
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Rackham & Co.
Sanitas Co., Ltd | Spratt's (Dogs)
Walker, Troke & Co.

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Vinolia Co., Lim.

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Grimble & Co.

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Fletcher Bros & Co.
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Sanitas Co., Lim.
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Allen, S. & Son
Allison, Johnson & Forster, Ltd.
Bass Bros
Barron, Harveys & Co.
Bleasdale & Co., Lim.
Burgoyne, Burdidges & Co.
Bush, W. J., & Co.
Corbyn, Stacey & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hicks
Evans, Gadd & Co.
Evans, Sons & Co.
Evans, Leocher & Webb
Ferrals & Co. | Graf, F.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
Hearson, Squire & Francis
Hewlett & Son
Kemp, Wm., & Son
Lloyd, T. Howard, & Co.
Lothouse & Saltmer
London Essence Co.
Macfarlan, J. F., & Co.
Potter & Clarke
Raines & Co.
Raines, Clark & Co.
Smith, B. A., & Co.
Stevenson, H. E., & Co.
Taylor & Colledge
Willows, Francois, Butler & Ayscough Thompson
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleys, Lim.

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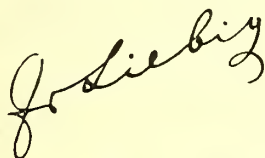
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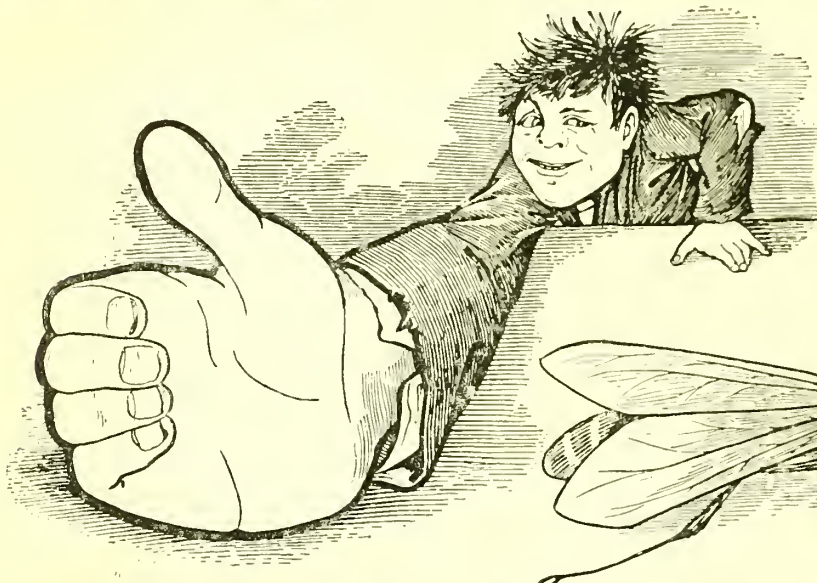
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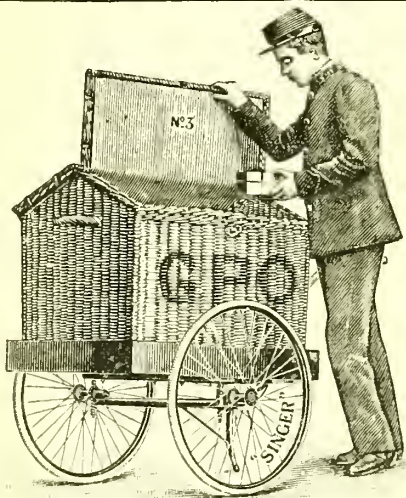
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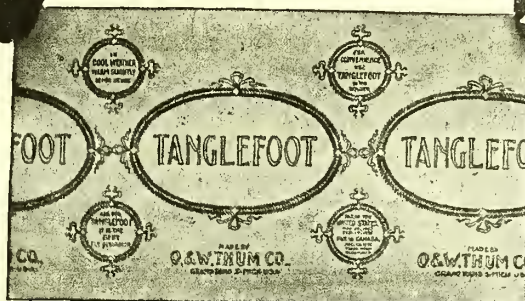
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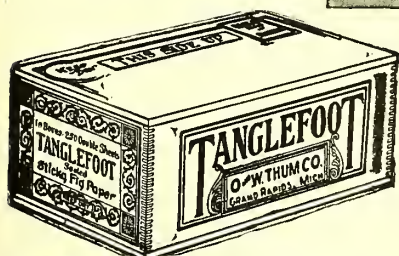
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5% OFF ON 5-CASE ORDERS.

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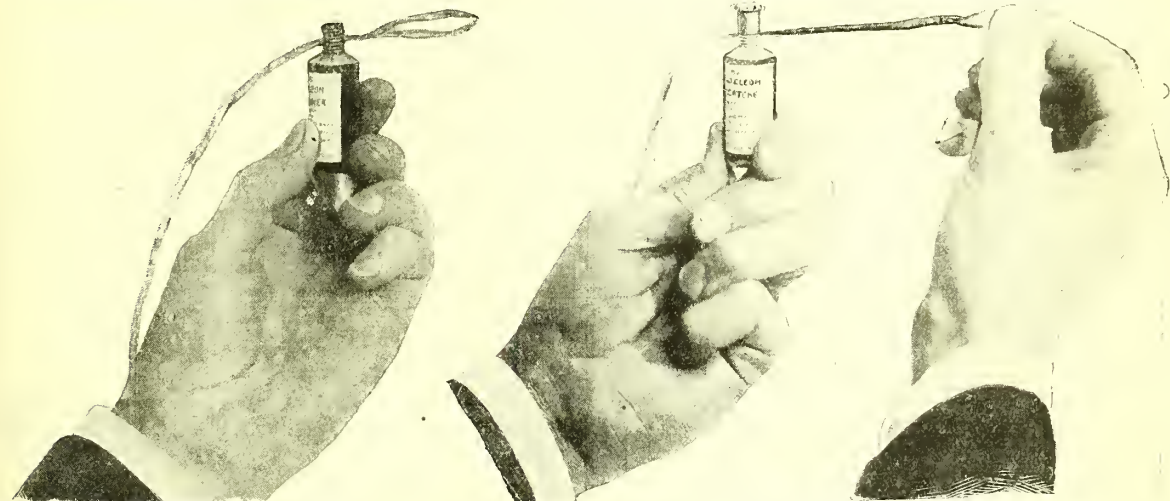
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Removes Tea &
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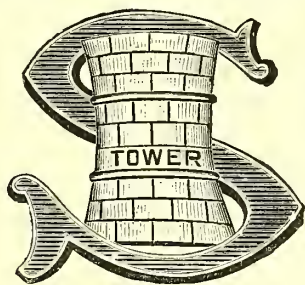
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See that each Bottle bears the
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It is certified to contain:—

IRON, Carbonate and Protoxide.
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MAGNESIUM, Carbonate.
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POTASSIUM, Chloride.
SODIUM, Chloride.

With traces of Manganese and Arsenious Acid, and has sufficient "free" Carbonic Acid to cause it to effervesce on being poured into a tumbler.

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*Containing Complete and Perfect Samples in all
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Of every description usually sold by the Trade, including every Novelty
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All in Stock at the present time,

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Complete, £7.

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Complete, with Bevelled Centre Mirror, Marble Slab, two Side Cases with Plate-glass Shelves and Mirrored Back, and two with Ebony Shelves and Plain Back. Total length, 6 feet 10 inches; height, 7 feet 1 inch; width, 2 feet, excluding projection of Sponge Case.

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A Fluid Extract, prepared from *Armour's Solid*



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It is specially designed as a finely-seasoned, nourishing, and stimulating beverage, soluble in hot or cold water.

After a long bicycle ride or any physical exertion, nothing prepares the stomach

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A CUP OF VIGORAL.

Supplied in 2-oz., 4-oz., 8-oz., & 16-oz. Glass Jars.

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CHEAPER THAN
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AND MUCH
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CASCARA EXT.

(Equivalent to 30 minims of the Fluid Extract.)

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6l. " ... .. 3 6 "

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1/4 oz. ... .. 1/6 per doz.

1/2 oz. ... .. 2 9 "

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The Saline is a fine white dry powder, containing a slight excess of English Tartaric and Citric Acids which give that pleasant sharpness so much desired.

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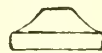
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'Soloid'

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## Saline Solutions

'Soloid'

Sodium Chloride, gr. 30.

'Soloid'

Sodium Chloride and  
Sodium Sulphate, gr. 15  
of each.

'Soloid'

Sodium Chloride Comp.

R Sodii Chloridi, .. gr. 25  
Sodii Sulphatis, .. gr. 1 1/4  
Sodii Carbonatis, .. gr. 1 1/4  
Sodii Phosphatis, .. gr. 1  
Potassii Chloridi, .. gr. 1 1/2

In tubes of 6, at 4s. 6d. per dozen tubes.

'SOLOID' SALINE SOLUTIONS  
afford the most convenient  
means of making saline solutions  
of the correct strength for the  
intravenous injections now em-  
ployed in place of blood transfusion.

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MARK.

|                        | 10-lb. tin  | 25-lb. tin   | 50-lb. tin   | Half-Bbls.    | Bbls.         |
|------------------------|-------------|--------------|--------------|---------------|---------------|
| White                  | 9/3 per tin | 22/- per tin | 41/8 per tin |               |               |
| Yellow                 | 5/- "       | 11/8 "       | 21/6 "       | 45/6 per cwt. | 40/- per cwt. |
| Red                    | 3/6 "       | 8/- "        | 13/4 "       | 28/- "        | 24/6 "        |
| <b>SECOND QUALITY.</b> |             |              |              |               |               |
| White                  | 7/- per tin | 15/- per tin | 27/6 per tin | 58/- per cwt. | 52/6 per cwt. |
| Yellow                 | 3/3 "       | 7/3 "        | 13/4 "       | 24/6 "        | 21/6 "        |
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Pharmaceutical Society of Tasmania.  
Pharmaceutical Society of Western Australia

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## Circulars and Price-lists.

## HOW TO DISTRIBUTE THEM TO THE DRUG-TRADE.

MANY of the best advertisers in the drug-trade have endorsed our view that it is more effective as well as cheaper to distribute circulars and price-lists stitched up in THE CHEMIST AND DRUGGIST than sending them singly by post. We make such insets in the C. & D. notable by the fact that we only receive them twice a year for distribution, and, of course, we ensure that they get into the hands of the right people. Sending them singly by post is more or less (principally "more") a lottery, gives immense office trouble, and costs at least three times more than our charge for inserting them in the C. & D. We would advise those who think of the matter to write to our Publisher for particulars about the next distribution—the Summer number, July 29, 1899. He will not only give particulars about the charges, but what artistic assistance he can in designing or arranging insets. The date is two months distant, but near enough for prompt instructions to printers.

## Summary.

SEVERAL interesting festal functions are reported on p. 907.

THE SECRET COMMISSIONS BILL has been read a second time (p. 935).

THE QUESTIONS set at the Spectacle-makers' Company's examination this week are printed on p. 916

OXYGEN should, according to Dr. Norman Collie and Mr. Thomas Tickle, be regarded as tetravalent (p. 917).

IN CONNECTION with the Tuberculosis Congress an exhibition is now open in Berlin, which a correspondent writes about on p. 912.

A NEW OPERA is described by a contributor as the next novelty to be produced at the Bloomsbury Theatre of Anxieties (p. 924).

THE FORMATION OF ALKALINE SULPHIDES is a difficult problem, which Mr. W. P. Bloxham has successfully attacked in a paper reported on p. 917.

AN OPTICAL SOCIETY has been formed in London with Mr. Thornthwaite, Master of the Spectacle-makers' Company, as the first President (p. 916).

TWICE AS MANY CANDIDATES have offered themselves for the North British Branch Executive as there are seats to fill. Their names are on p. 916.

A NEW METHOD for the analysis of commercial phenols, and other interesting papers read before the Society of Chemical Industry, are reported on p. 918.

GUESSING A GRAIN OR TWO OF MORPHIA is a practice which a Cardiff Coroner's jury considers reprehensible. It was a doctor who did this curious dispensing (p. 906).

THE PROPOSAL of the General Medical Council to further increase the stringency of the Preliminary examination has encountered difficulties which are described in an article on p. 920.

THE COMPANIES BILL is not to be opposed by the Pharmaceutical Council in the House of Lords. Mr. Glyn-Jones tried to get the Council to declare their policy, but he had no backing (p. 914).

THREE WELL-KNOWN medical men—Professors Burdon Sanderson, Michael Foster, and Mitchell Banks—have been honoured by the Queen on the occasion of her birthday. We give their portraits on p. 934.

MR. WM. MARTINDALE was elected President of the Pharmaceutical Society of Great Britain on Wednesday, and Mr. Atkins succeeds him as Treasurer. Mr. Newsholme retains the vice-presidential chair (p. 913).

THE UNQUALIFIED DISPENSERS' QUESTION has, we understand, been postponed by the General Medical Council until next session. Mr. Glyn-Jones is anxious that the Pharmaceutical Council should not shelve the question (p. 915).

A CHEMIST AND DENTIST who employed an unqualified assistant has been summoned by the General Medical Council to answer a charge of unprofessional conduct. We question the grounds of the Council's action in this matter (p. 921).

ON the occasion of the Royal Institution's centenary, several functions have been held in London this week, which we report. These include notes of a lecture at which Professor Dewar publicly showed liquid hydrogen (p. 930).

BUSINESS has been quiet this week in wholesale circles, and there are few changes of importance. Quicksilver is dearer, so are ipecac, jalap, and canary-seed. Quinine is easier. Lengthy drug-sales took place on Thursday, and are fully reported (p. 940).

MR. SHEKLETON, a Canning Town medical practitioner, has had his name removed from the medical register—a fate also extended by the Medical Council to Mr. J. J. McKay, a South London practitioner, who had, before Mr. Coroner Hicks, sworn to statements which were at variance with facts (p. 925).

## English News.

*Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.*

### Haphazard Dispensing.

At a coroner's inquiry held at Cardiff on May 31 into the death of a schoolmaster named Jones, Dr. C. Greaves stated that deceased rang him up at 4 o'clock on the morning of the previous day, and begged to be admitted as he was suffering from alcoholic poisoning. The doctor first gave deceased an emetic, and then, at his request, a sleeping-draught. This draught contained 20 gr. of chloral, 10 gr. of bromide, and between 1 and 2 gr. of morphia. Deceased went to sleep on the surgery couch, and when the doctor saw him again at 8 o'clock he seemed to be sleeping naturally, but about an hour and a half afterwards symptoms of collapse were visible, and failing to restore consciousness, witness called in Dr. Wallace, and deceased was removed to the Infirmary, where he died. In answer to the Coroner witness said the morphia was given in powder, and in answer to the foreman of the jury he confessed that he did not weigh the constituents of the draught, but he was quite satisfied they did not exceed the quantities mentioned. Dr. Wallace deposed that from deceased's appearance when he first saw him, and from what Dr. Greaves told him, he came to the conclusion that deceased was suffering from morphia-poisoning. He and Dr. Pratt made a *post-mortem* examination, and he considered the cause of death was due to the diseased condition of the internal organs, accelerated by an overdose of morphia. Dr. Pratt in his evidence said he thought the cause of death was morphia-poisoning intensified by the diseased condition of the internal organs. The jury returned a verdict that the deceased died from an overdose of morphia administered by Dr. Charles Greaves, intensified by the diseased condition of the heart, liver, and kidneys. They added a rider, "And the jury consider the act of guessing the quantity of active poison most reprehensible." Dr. Greaves said it was a matter of extreme regret to him that the case should have terminated so unhappily, but he had found that people under the influence of drink could sometimes take 6 gr. of morphia with impunity. That was what led him to give what to a lay mind might be considered a strong dose, but the circumstances seemed to justify his action.

### Attempted Suicide and Alleged Embezzlement.

At Sleaford Police Court, on June 1, John Henry Musson (25), a traveller in the employ of Mr. Fillingham, pharmaceutical chemist and mineral-water manufacturer, Grantham, was charged with attempting to commit suicide by drowning. Prisoner was taken to the police-station by a labourer who had helped him out of the river. The Grantham police were communicated with, and a reply was received that they held a warrant for prisoner's arrest for embezzlement. Prisoner was handed over to them, and appeared at Grantham Police Court on June 2 to answer a charge of embezzling sums of money amounting to £15s. 4d., belonging to Mr. Fillingham. Mr. Fillingham deposed that it was the duty of accused to go round for mineral-water orders and collect accounts. Certain inaccuracies in some of the accounts having come to the notice of Mr. Fillingham, he dismissed prisoner and took out a warrant for his arrest. Further evidence having been given prisoner was remanded, bail being refused.

### Missing-letter Competitions.

At the resumed hearing on June 3 at North London Police Court of the case against George Gabriel Wolff and his sons Sigmund and Adolph, described as "industrial chemists" and ink-manufacturers, who are charged with obtaining money by means of missing-letter competitions, evidence was given by, amongst others, George Charles Groves, bookkeeper to Snowdon, Sons & Co. (Limited), oil and petroleum-jelly merchants, Millwall. Mr. Groves said his firm had done business with the Wolffs since 1891. They supplied the accused with the ordinary mineral oil supplied to chemists,

and also with petroleum jelly. A sample tin of "Petroline," which was sent by defendants to competitors who sent 1s. 6d., was examined by witness, who said it appeared to be a mixture of mineral oil, petroleum jelly, and a vegetable colouring-matter, and the cost, tin included, would be 1d. Howard H. Crosbie, of the firm of Crosbie & Co., drug-grinders, deposed to supplying Gabriel Wolff with powdered chalk, which he ground with a preparation brought by Wolff, and which witness believed was carmine. Wolff showed him a sample of a well-known dentifrice in a paste, and said he wished witness to imitate that as far as possible. William Burns Kelly, traveller to Messrs. W. J. Bush & Co. (Limited), Artillery Lane, gave evidence as to the supply of certain perfumes to Gabriel Wolff for use in a tooth paste. The total quantity supplied was worth less than 10s. Carmine was worth 16s. per lb. The sample tin of "Petroline" was handed to the witness, and he agreed with Mr. Groves that its outside value was 1d. A tube of the "Dido Dentifrice," which the defendants sent out for 1s. 6d., was handed to the witness, and he said its cost, tube included, would be about 1d. The prisoners were again remanded.

### An Ounce of Chloral for a Dose.

At Westminster on June 5 an inquest was held on the body of James Paxter Bailey, a medical man, who was found dead in the Grosvenor Hotel. Two bottles were found in deceased's bedroom, one labelled "Chloral—poison" and the other "Spirit of chloroform," the former bottle being empty. Evidence was given by George Garton, assistant at the Army and Navy Stores, of the sale of 1 oz. of chloral hydrate to a gentleman giving the name of J. B. Bailey, who said he was a medical man and signed the poisons-book Edward Wavell, chemist, 114 Victoria Street, Westminster, deposed to selling deceased some spirit of chloroform. Dr. Troutbeck, who was called in, said the chloral-bottle had contained 480 gr., all of which deceased had presumably taken, which was "an enormous dose." Dr. D. P. Sturridge, of Kendal, where deceased was at one time in practice, gave evidence of deceased's habit of taking chloral. He had known him taking 126 gr. in a single night, and he had gone on increasing the dose. Temporary insanity was the verdict.

### Charge of Stealing.

At Poole Police Court, on May 29, two men, giving the names of Hold and Spieyer, were charged with stealing a cash-box, containing about 18d., from the shop of Mr. J. A. Haynes, chemist, Parkstone. Mr. Hamilton, assistant to Mr. Haynes, stated that one of the men called at the shop and asked for some sponges and soap to be sent to a young lady at the Central Hotel, Parkstone. Shortly afterwards a second man called and wanted to be examined privately. Whilst engaged in the back room with this man he heard a noise in the shop, and on going there found a third man leaving the front door with the cash-box under his arm. He went for him, and secured the box, but the man made off. On returning to the shop the man with whom witness was engaged promised to return for the medicine, but as he did not come within half-an-hour as promised information was given to the police. The prisoners were arrested at Wimborne, but the third man has not yet been found. The case was resumed next day, when evidence of identification was given, and the prisoners were remanded for a week, bail being refused.

### A Begging-letter Impostor.

At the Bristol Police Court on June 2, Martha Smith was charged with endeavouring to procure charitable contributions by false and fraudulent pretences, and also with going about begging. On the previous day she called on Mr. A. G. Wills, chemist, Bristol, and asked to see Mrs. Wills, sending in a letter, in which it was stated that she was a widowed schoolmistress, and was trying to reach Chesterfield. Mrs. Wills refused to see her, and later in the day, in consequence of complaints received at the police-station, the woman was followed and arrested. Police evidence having been given, accused was sent to prison for seven days.

### Poisonings: Eye-lotion; Salts of Lemon; Arsenic.

At Livesey, in Lancashire, a child, 2 years of age, the son of a labourer, drank a quantity of eye-lotion which his



mother kept stored in a lemonade-bottle, and died ten minutes afterwards.

Ernest Durselen, 22 years of age, borrowed a shilling from a fellow-workman at Stockport, on June 2, with which he immediately purchased three-pennyworth of salt of lemon. This he took, and died an hour afterwards.

At an inquest held this week before the Lancashire Coroner it transpired that a youth, 17 years of age, named Barlow, poisoned himself with arsenic, which he had obtained from an unlabelled keg of the poison kept at the dyeworks of Messrs. Sackfield & Swallow, Swinton. The poison is used in colour-mixing, and a witness stated that there was nothing to indicate that the keg contained arsenic. Suicide whilst insane was the verdict.

#### The Sale of Carbolic Acid.

At an inquest held at Manchester on June 2 it was stated that deceased, a man named McLoughlin, had died from injuries to the lower part of the abdomen, caused by carbolic acid. Deceased had filled a ginger-beer bottle with carbolic acid, obtained from his employer's store, and it is conjectured that he put the bottle in his trousers-pocket, and the acid leaked, causing the injuries which resulted in his death. One of the jurymen asked the Coroner whether chemists could not be stopped from selling carbolic acid in ginger-beer bottles. The Coroner (Mr. Sidney Smelt) said chemists did not sell carbolic acid in ginger-beer bottles, although people often sent ginger-beer bottles for it, causing many lives to be lost in consequence. There could be no better way of selling the acid than in a tin, properly and distinctly labelled, with careful instructions how to use it, and for what purposes it could be used.

#### § Festal.

*The Liverpool Chemists' Association.*—The Council of this Association paid a visit to their President, Mr. Ed. Evans, J.P., D.L., at his residence, Bromwylfa, Wrexham, on June 3. The occasion arose from the desire of the aged President to see around him once more those who reminded him of his early labours when the Association was established, and to celebrate the day when, fifty years ago, Jacob Bell and others gathered together in a Liverpool hotel to listen to an address on "Botany," and to found the Liverpool Chemists' Association. Dr. Fyves, Messrs. J. Bain, H. Wyatt, jun., A. C. Abraham, T. F. Abraham, J. T. Hornblower, E. Davies, J. Hoeken, J. Smith, J. J. Smith, A. S. Buck, R. C. Cowley, J. Swinton, W. Wellings, and T. H. Wardleworth accepted the invitation, and the party was joined by Messrs. John J. Evans, W. P. Evans, and J. H. Evans. The guests, on arriving at Wrexham, were driven to Bromwylfa, where they were cordially welcomed by Mr. E. Evans, jun., Miss Evans, and Mrs. J. J. Evans. Afternoon tea was served under the lovely trees by which Mr. Evans's residence is surrounded, and the party then played golf, croquet, or bowls, according to their liking. Superb weather favoured the visitors, who revelled in the beauties of the landscape and inhaled the pleasant breezes of the mountain. Dinner was served at 7 P.M., after which Mr. Ed. Davies proposed the health of their revered host; and Mr. Ed. Evans, in a few touching words, referred to his inability to take part in the work as heretofore, and wished prosperity to the Association in the future. Mr. Bain also spoke, referring to the inspiration which such lives as Mr. Evans's gave to the rising generation. A pleasant journey home brought a most enjoyable and historic function to an end.

*Marriage Feasts.*—The staff and present students of the South London School of Pharmacy dined on Friday, June 2, at the Trocadero, on the invitation of Dr. Muter, to celebrate the marriage of his son, Mr. A. H. Mitchell Muter. No representatives of the press were bidden to the banquet, but we are informed that about 100 guests sat down to the superb dinner put on by Messrs. Lyons. During the evening Lieutenant Colonel and Sheriff Clifford Probyn, L.C.C., who attended in state, addressed the students in eloquent terms, recalling the old times when he was himself a student at the South London School, and giving them good advice as to studies and success in after life. A black marble dining-room clock and set of bronzes were presented to Mr. Mitchell Muter on behalf of

the staff and students, and acknowledged by him in a feeling speech.

On June 3, Ethel, the younger daughter of Mr. John Moss, was married at St. Peter's Church, Brockley, to Dr. Charles Wesley Winningshaw, of Clapham. After the service a large party of friends assembled at a reception in St. Peter's Hall, which was charmingly decorated for the occasion. Among the company were Professor and Mrs. Attfield, Mr. and Mrs. H. A. Arnold, Dr. and Mrs. Arthur Childs, Dr. and Mrs. F. Tayler, Dr. and Mrs. A. A. Tindall (*Medical Press*), and the Rev. J. Brough (Chaplain to the Forces).

*Distribution of Bonuses.*—On June 3 the Directors of Messrs. Edward Cook & Co. (Limited), East London Soap-works, Bow, dined their clerks, heads of departments, and travellers at the Holboin Restaurant. Over one hundred gentlemen were present, including the firm's representative in New South Wales, who is on a visit to England. Mr. E. J. Cook, J.P. (chairman of the company), presided, supported by Mr. W. Cook, Mr. T. Alick Cook, Mr. S. Hall, Mr. E. Miall Cook, and Mr. G. Hall. Mr. Martyn Cook sent a message regretting his absence. The Chairman first referred to the death of Mr. E. Rider Cook, their late senior partner, and then went on to say that, in spite of the very severe and keen competition during the past year, the firm had been able to make the year's trading a success. That being so, the company would follow the policy of the old firm, and had declared a bonus, which would be distributed among the staff and travellers, who had worked so hard. It was by working shoulder to shoulder, said the Chairman, for the interests of the company, and exercising every care to prevent waste, that they were again able to meet at such a happy function. Further speeches were followed by a distribution of the bonuses, and tobacco and music succeeded. Songs were rendered by Messrs. H. Attwell and A. Briance, a mandoline duct was given by Messrs. Chris Catt and W. A. Woodall, and a violin solo by Mr. S. H. Green, ably accompanied by Mr. F. E. Blair—all the performers being members of the staff. During the evening Mr. William Cook, on behalf of the staff and travellers, presented a handsome testimonial on vellum and a silver tea and coffee service to Mr. William Sturrock, who is retiring after nearly forty years' service in the counting-house. In making the presentation Mr. Cook spoke of the good work done by Mr. Sturrock for so many years, and he rejoiced to think of him spending his remaining years in happy retirement at his old home in Bonnie Scotland. Mr. Sturrock made an affecting reply.

*Messrs. Raimes & Co.'s employees* held their annual excursion and dinner after stocktaking on June 3. The steam-yacht *Gilana* was chartered for the occasion, and the party, accompanied by the two partners, Mr. S. Scruton and Mr. W. C. Birks, left York at 1.30 for Newton and Linton Lock, returning at 6.30 to the Packhorse Hotel. After dinner the usual loyal toasts were given, and Mr. H. Whipp proposed "Success to the Firm," alluding to the heavy increase in business; and the partners, in responding, expressed the pleasure it gave them to meet their staff under such happy auspices, and the firm's high appreciation of the excellent work done by the staff during the past year.

*Cash Chemists' Carousing.*—The Lincoln employees of Messrs. Boots (Limited) had an afternoon at Belvoir on May 31. The 1 o'clock Wednesday closing in that city has enabled a series of outings to be organised.

#### Droitwich and its Salt-baths.

On June 3 the formal opening of a new railway-station at Droitwich was attended by a number of the members of the medical profession, who inspected the St. Andrew's brine-baths, and made many inquiries as to the success of the brine-treatment for gout and rheumatic affections. The doctors appeared impressed with the statements of the many cures which had resulted from the baths during the past fifteen years, and it is hoped that the fame of the district as a health-resort will be increased thereby.

#### Fires.

An outbreak of fire occurred on June 5 at the chemical-works of Messrs. W. Pearce & Co. (Limited), Limehouse, E.

but it was so successfully attacked by the employés of the firm with the firm's private hydrants that the aid of the Metropolitan fire brigade was not required.

Fire broke out on May 31 on the premises of Mr. J. Cernes, druggist, Wimbwell but was quickly extinguished, damage to the amount of 12*l* being done.

#### Cricket.

On May 27 at Nunhead, Muter's C.C. played the Brixton College C.C., and won by 67 to 48.

On June 3 also at Nunhead, Muter's C.C. and the Metropolitan College C.C. were the contestants. This time Muter's scored 99, to which the Metropolitans could only reply with 62. The best performer was Armstrong, who scored 25 for the winners, and took 6 wickets for 13 runs.

Davy Hill's C.C. v Stevenson Howell's C.C. (League match).—Played at Brockley on June. Scores: D.H.C.C., 72; S.H.C.C. 57. For winners E. Sibley scored 40 and took 5 wickets for 18 runs, and for losers Hurdall captured the last 4 wickets in D.H.'s innings with successive balls.

Johnsen & Jørgensen C.C. met the Oxford C.C. at Willesden on June 3. The match was drawn. Scores: Oxford C.C., 94; Johnsen & Jørgensen C.C., 40 for 3 wickets.

Hewlett's v. Kepler.—Played at Bowes Park on June 3. Hewlett's scored 26, Kepler 94. For the winners, Mr. C. Gordon Cowen took 9 wickets for 8 runs, including the "hat trick" in his performance.

The following shows the position of the Wholesale Drug-trade Champion ship up to June 3 inclusive:—

| Name of Club             | Played | Won | Lost | Drawn | Points |
|--------------------------|--------|-----|------|-------|--------|
| Kepler ... ..            | 3      | 3   | 0    | 0     | 6      |
| Burgoyne's ... ..        | 4      | 3   | 1    | 0     | 6      |
| Davy Hill's ... ..       | 3      | 2   | 1    | 0     | 4      |
| Stevenson & Howell's ... | 1      | 0   | 1    | 0     | 0      |
| City Mills ... ..        | 2      | 0   | 2    | 0     | 0      |
| Hewlett's ... ..         | 3      | 0   | 3    | 0     | 0      |

#### Chemist Sentenced

Ernest William Moss, chemist, was tried along with P. W. Throssell, a rate-collector at Cambridge, on June 7, on a charge of conspiring to obtain money from a bookmaker, and inciting a Post Office servant to conspire with them. The facts of the case were reported in the *C. & D.*, April 22, page 624. The good position of the prisoners was urged in mitigation of sentence, and it was suggested to deal with them under the First Offenders Act. The Judge sentenced the defendants to six months' imprisonment without hard labour in the second division.

## Irish News.

*Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.*

#### A Good Idea.

A Cork pharmacist sends out sleeping-draughts in bottles enclosed in a box of one or more compartments, so that the draught may be readily distinguished from an ordinary medicine.

#### Still Growing.

Dr. J. C. McWalter, M.C.P.S.I., has acquired new premises in the neighbourhood of Camden Street, Dublin, for a south suburban branch medical hall. This will make the seventh pharmacy in the city owned by the go-ahead doctor.

#### Carbolic Acid in Poison-bottles.

At an inquest held at Belfast, on June 1, relative to the death of a woman named Reid from carbolic-acid poisoning, evidence was given to the effect that deceased had taken the carbolic acid in mistake for medicine. The jury, in returning a verdict of death from misadventure, desired the Coroner to express to the Home Secretary their opinion that poisons should be dispensed in specially-coloured and specially-ribbed glass bottles. They considered that chemists and druggists

should be compelled to explain to purchasers the deadly nature of poisons, and to point out to them the colour and shape of the bottle.

#### Drug-contract.

Messrs. John Clarke & Co., Belfast, have been appointed drug and medicine contractors to the Gorey Poor-law Guardians at 55 per cent. discount off the authorised list.

#### Kelly on Botany.

Mr. Patrick Kelly, M.P.S.I., lectured last week at Harcourt Street, Dublin, on the "Development of Plant-life from Seed to Fruit." The lecture was illustrated by lime-light views.

#### Ireland the Dumping-ground.

Mr. William Field, M.P., has brought before the Dublin Port and Docks Board the question of revising the harbour-dues on imports generally. He contends that it is ridiculous to levy a charge on imports of unmanufactured articles and to let manufactured goods in free. It is, he adds, free trade gone mad, and between preferential rates and the Chamber of Commerce, Ireland is made a dumping-ground for the manufactures of every other country in the world.

#### Fire.

At Dublin, on June 4, fire broke out in the apothecary's department of Mercer's Hospital. The outbreak originated in one of the medicine cupboards through the spontaneous combustion of some of the chemicals. The flames were soon extinguished, and the damage done was inconsiderable.

#### Guardians' Doings.

The Belfast Guardians discussed last week the list of medicines to be included in the new tenders. Dr. McDonnell objected to the inclusion in the list of cod-liver oil and malt extract, a substitute for which could be easily prepared. It was explained that many patients, particularly consumptives, could not take cod-liver oil, hence the necessity for the addition of malt extract; but the articles objected to were eventually deleted, and the list was approved of.

A notice has been received by the Belfast Guardians from the Local Government Board, disallowing the sum of 420*l*. in respect of the recoupment of medicines, and a committee was formed to inquire into the matter. The committee report that the large increase of cost has been caused by the medical officers ordering medicine and medical appliances not on the list authorised by the L.G.B., and they recommend the Guardians to request the medical officers to adhere strictly to the regulations, failing which the Guardians will hold the visiting medical officers personally responsible, and they will be required to assign sufficient reasons in every case in which such extra medicines are ordered.

The question of the analysis of drugs and medicines is exercising the minds of not a few Irish Boards of Guardians. At Armagh the want of an analyst is much complained of. In Fermoy the Guardians wish to have the drugs tested in bulk to save expense. Mr. J. A. Ray, M.P.S.I., Dublin, has offered to act as analyst at 20*l*. a year, but his offer has not been accepted. The Limerick County Council have got rid of Sir Charles Cameron, and have agreed to appoint a local man to the vacancy; and the South Dublin Guardians have said, "No, thanks," to a Trinity College analyst who has offered to examine their drugs for a consideration. They get this duty done for nothing at present.

## Scotch News.

*Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.*

#### The Other Man's Bottle.

Mr. John McEwan, aerated-water manufacturer, Dumfries, has been fined 6*l*. 6*s*., with 2*s*. costs, for filling with ginger-beer a bottle bearing the trade mark of Richard Smith, Greenock.



## Personal.

The late Mr. Robert Cox, M.P. for South Elinburgh, who died at Aix last week, was the head of the firm of J. & G. Cox, gelatin and glue manufacturers. He took over the business in 1874 on the death of his uncle, Mr. John Cox, the original maker of Cox's gelatin.

## French News.

(From our Paris Correspondent.)

**THE PHARMACIE SWANN.**—We cannot ascertain that the paragraph we published in *THE CHEMIST AND DRUGGIST* of May 27 respecting the transfer of the business of the late Mr. Swann was substantially wrong in any particular, unless it may be that it may have seemed to represent that it was not a complete sale, which we are assured it was. M. Soudain, a qualified pharmacien, has acquired the pharmacie and stock, while M. Borney, who for a long time held an important position in the business under Mr. Swann, becomes proprietor of the trade-marks. M. Borney is well known to and popular among the English pharmacists of Paris.

**NO TRADE WITH PORTUGAL.**—The Minister of Commerce recently requested the Paris Syndicate of Chemical Manufacturers, amongst other bodies, to examine and report upon the question of a treaty of commerce with Portugal. The chairman of the Syndicate, having made inquiries of the principal exporters among his colleagues, announced that the very small quantity of French chemical and pharmaceutical products yearly purchased by Portugal is not likely to increase, seeing that the commerce of that country is practically all in English hands. A report to this effect was accordingly forwarded to the Minister.

**WORSE THAN COUNTER-PRESCRIBING.**—A French doctor was sitting near the driver on the knifeboard of a Montmartre omnibus during the recent cold north winds, and commenced to cough slightly. Immediately (he relates) the 'busman turned and asked, 'Aren't you taking anything for your cold?' "Goodness, no!" ejaculated the astonished Esculapius. "You are wrong—a neglected cold is dangerous. I cured an inspector of the company, just such a man as you are" (the doctor blushed). "If I'd done what the doctor told me, I should have been dead long ago. May I advise you?" The doctor modestly expressed his anxiety to learn, and was duly prescribed hot rum and water, egg and milk, and the "tisane de bourgeois de sapin" (fir-sprig tea), which is the stock remedy among the French lower classes. "This tisane," explained the condescending Jehu, "will clear your stomach and kill the microbe. And, finally, here are some pills: I will let you have ten for 5d.; cost-price, you know, just what my pharmacist charges me. Doctors will tell you to take two or three a day; don't do it, one's quite enough." The doctor promised to faithfully follow the treatment. Just at this moment a luckless-foot passenger grazed the nose of one of the 'bus-horses. "You are in a hurry, aren't you? So am I. You'd like me to pull up and let you pass, wouldn't you?" thundered the prescriber. He had become a driver once more.

**THE MUNICIPAL LABORATORY** reports that the adulteration of wine by harmful substances has practically disappeared in Paris. The only grounds of complaint now are the addition of water and the treatment of sour wine by alkali. Last April the figures for wine-samplers were 129 "good," 280 "passable," and 199 "bad." Parisian beer mostly comes from Germany. The barrels are sealed on arrival, and only delivered after analysis of a sample. If the sample is bad, the barrels are staved in and the liquid allowed to flow into the gutter. The admission free of duty of "French small beer" (a recent decision of the Municipal Council in the interests of the working-classes) has, however, led to the introduction of a large quantity of bad beer. Paris milk is fairly pure; it is skimmed and watered to some extent. Cheese is largely adulterated in many ways. Chocolate is made of cacao-bean shells ground up and mixed with glucoses, starch, and colouring-matter. Bread (49 "good" against 14 "bad") sometimes contains maize or rice flour since the duty on wheat was raised eighteen

months ago. Jam made from fruit is rare. Apricot-jam is made of carrots and pumpkins in glucose-syrup artistically coloured. Currant-jelly is simply tinted glucose. In plum-jam a few greengages are present—the rest is a mystery. In fact, the jam-industry would appear to be excellent proof of the coming period announced by M. Berthelot, when all food will be artificially synthesised. But if our living bodies are filled with adulterated substances, we have the consolation of knowing that after death "they manage these things better in France." Out of fifteen samples of embalming-substances only one was of bad quality.

**THE LILLE SCHOOL OF PHARMACY.**—M. Lotar, who died last Christmas Day, at the age of 63, had been a professor of pharmacy at Lille since 1875, when the existing "Faculty" was created. He formerly had an officine in the city, and was also a teacher in the School of Medicine. On the creation of the Faculty, M. Lotar gave up business and devoted himself entirely to teaching. The course of pharmacy at Lille is now being carried on by his assistant, M. Deroide. When a titular professor in a French University dies, or retires, the assistant (or agrégé) is expected to do double duty for a year or two, without any extra emoluments, until he, or someone else, is appointed to the vacant chair. This is looked upon as a probation. In a case like the present, where the assistant has had seven years' experience, it seems hard, but M. Deroide is only about 35, so he can afford to wait. He has some 150 pupils, mostly drawn from the Nord and neighbouring departments. Quite a number of the students take the train home daily, to such places as Douai or Calais. They make it lively for the other passengers sometimes, as I have experienced, but French students are always treated with leniency. Lille is, I believe, the youngest University in France; I should put down the total number of students at about 1,500. In medicine, pharmacy, and science, combined, there are from 500 to 600, I am told. The Lille School of Pharmacy turns out about fifty full-fledged pharmacists yearly. A few Belgians present themselves for examination. They like to say they hold the French certificate, even if they cannot use it in France. They simply go in for the final tests, and are not required to conform with preliminary tests, apprenticeship, &c., in France. The University buildings at Lille are very extensive; in fact, if one might criticise such a very enterprising town, I should hint that the Lillois would do just as well to spend a little less on bricks and mortar, and a little more on repairs, laboratory improvements, and maintenance generally. The Botanical Garden, outside the town, is sadly neglected, and the University Library, commenced in haste (with a Government subsidy), will, doubtless, be finished at leisure. Funds lack, and the girders rust in the unroofed half-walled building.

## Australasian News.

**THE B.P. ADDENDUM.**—This issue of the *C.D.A.* contains several notes on the proposed Colonial and Indian Addendum to the British Pharmacopoeia, 1898, and there are indications in the proceedings of societies that Australian pharmacists are taking an interest in the work. The notes in the May issue deal more with what is already in the B.P. than what is necessary for an Australian supplement. Messrs. F. H. Faulding & Co., of Adelaide, and Mr. W. J. Browncombe, manager to Messrs. J. Bosisto & Co., Richmond, Victoria, write about eucalyptus oil. The former maintain that the sp. gr. is too high, and the latter that the B.P. requirements provide a wise and generous standard which represents the present demand for a superior oil.

**NEW ZEALAND PHARMACY.**—The officers and executive of the Central Pharmaceutical Association of New Zealand are portrayed in this number of the *C.D.A.* The group consists of Messrs. H. Brittain (President), G. W. Wilton (Vice-President), R. D. Hanlon (Vice-President), D. T. Orr, J. F. Sutherland, R. C. Brien, W. C. Fitzgerald, and T. H. Hnstick (Secretary and Treasurer). The headquarters of the Association are in Wellington.—The annual meeting of the Otago Pharmaceutical Association was held on April 17. The report submitted showed the Association to be in a flourishing



condition, which was chiefly owing to the fact that it does good work, especially in forming friendships in the trade—The Pharmacy Board is carrying out registrations as provided by the recent Act, and all applications for registration without examination are rigidly considered. Professor Easterfield, the new Professor of Chemistry at the Victorian University, has been interviewed by the Central Pharmaceutical Association. The professor was pleased to see the deputation because he had been interested in pharmaceutical chemistry. Mr. Mee, of the deputation, hoped the professor would see his way to undertake pharmaceutical classes, either in conjunction with the College or privately. Dr. Easterfield said he had been talking the matter over with Mr. Bonnington, the Chairman of the Pharmacy Board, and it had been suggested that he should hold classes for mixed pupils up to a certain point, and then hold separate lectures for pharmaceutical students and those who were going in for an Arts degree. He also spoke about the advantages of pharmaceutical research, and gave the deputation such encouragement that a good system of instruction in pharmaceutical chemistry is confidently expected to be in operation soon.

MR. SYDNEY H. VAUGHAN, of Brisbane, President of the Pharmaceutical Society of Queensland, is on the way home by the *Carlsruhe* for a long visit. Mr. Vaughan is a Londoner, and served his apprenticeship with Mr. William Milson, of the Caledonian Road, N., and passed the Preliminary



examination at Bloomsbury Square in 1873. In 1877 he went to Queensland, and was for a long period assistant to Dr. Joseph Bancroft. He was afterwards in business at Southport, Rockhampton, and has for some time been in business at Red Hill, one of the suburbs of Brisbane, where he is a Councillor and Justice of the Peace. Before leaving Brisbane Mr. Vaughan was presented with a handsome jewel by the Freemasons, and Mrs. Vaughan's friends in the Church of England at Red Hill gave her a valuable opal brooch. Mr. A. B. Chater, another member of the Council of the Queensland Society, is also to visit England this summer, and advantage is to be taken of the presence of these two gentlemen in England to renew the application made for reciprocity of British and colonial certificates, the Society this time sending a letter directly through the Government.

B.P. TESTS are sometimes too elaborate for a busy dispensing chemist to carry out; but as interpreted by Mr. R. S. Proctor, in the "Manual of Pharmaceutical Testing," they are easily performed. The manual brought into line with the 1898 B.P. is published by the C. & D., at 2s. 6d.; by post 2s. 9d.

## South African News.

(From our Correspondents.)

THOMAS HENRY HARRISON, chemist and druggist, Great Britain, 1899, has been licensed to practise in Cape Colony.

A NEW CONTAGIOUS-DISEASES HOSPITAL is to be erected at Portwood Road, Green Point, Cape Town, from plans by Messrs. Reid & Green. Dr. Fuller is to be the medical officer in charge.

TOOTH-BRUSHES FOR CONVICTS.—One of the wholesale houses at Cape Town recently contracted with the Cape Government for the supply of tooth-brushes to the Breakwater Convict Station. If vinolia dentifrice is to be used, it is not included in the contract.

GOLD AND CHEMICALS.—During 1898 the seventy-four gold-mining companies in the South African Republic consumed 3,672,634 lbs. of cyanide, valued at 198,878l., and 36,319l. of other chemicals. They imported 1,178 bottles of quicksilver, valued at 9,944l. They also had lubricants to the value of 80,222l.; 17,416 cases of paraffin oil, valued at 11,665l. and 182,716 boxes of candles, which cost 92,551l. The explosives, chiefly nitroglycerin compounds, amount to over a million pounds in value.

THE CAPE PHARMACY BILL.—The conference between the Cape Medical Council and the Pharmacy Board on May 12 was private. Our correspondent in Cape Town was officially informed that the Council and Board agreed to approach the Government conjointly relative to the proposed amendments to the Medical and Pharmacy Act, 1891, but that no further particulars were available for publication at this juncture. "The conference," adds our correspondent, "has not attracted much attention in trade circles. The most important matters for adjustment are the poison schedule, and 'counter-prescribing' and 'open-shop' clauses. The patent-medicine formula clause may be taken as having died a natural death."

AN INTERESTING EXHIBITION of photographic pictures was held in the Education Hall, Cape Town, on May 11 and 12, under the auspices of the Cape Town Photographic Club, which has for its President Mr. David Gill, C.B., LL.D., F.R.S., and its Vice-President is Mr. Thomas Muir, LL.D., Superintendent of Education. Photography is closely associated with pharmacy in the Cape, and most pharmacies carry stock and give every facility to beginner, by means of dark-rooms and practical hints. The exhibition was the first of its kind in South Africa, and it is hoped that it will greatly popularise amateur photography. Lady Butler distributed the awards. The pictures were judged in England by Mr. Hubert J. Elliott, Barnet, and Mr. J. B. B. Wellington, Elstree.

TRANSVAAL PHARMACY.—A correspondent of the Johannesburg *Star* in an "open letter" to Dr. Rietz, who received the deputation of pharmacists recently, argues that in the appointment of a Board to examine chemists at Pretoria no chemists who have shops in either Johannesburg or Pretoria should be chosen, because it would be very undesirable that a chemist in business should examine any of his competitors' sons or assistants. There are only 117 chemists in the whole Transvaal, and the great majority of those who have "respectable diplomas" are in Johannesburg. [His correspondent is a bad advocate. He practically says that the best chemists are in Johannesburg, yet would exclude these chemists from the Board, for a reason which applies to every place if to any.]

BUSINESS CHANGES.—Dr. W. Froembling has taken over the business in Sir Lowry Road, Cape Town, known as North's Dispensary, and formerly owned by Mr. J. S. North, who is at present in indifferent health.—Messrs. Carman & Workman are opening a new drug-store midway between their stores at Woodstock and Salt River. This firm supply medicines to the employés of the Railway Department at the C.G.R.R. works at the latter place.—Mr. Henry Lionel Creed, who has for some time past been connected with the administration of the Cape Food, Drug, and Seeds Act, has been officially gazetted as inspector in the place of Mr. J. E. P. Close, resigned. The appointment also includes that of Superintendent of the Breakwater Convict Station, Table Bay.



## Colonial and Foreign News.

**INCREASE IN VENEZUELAN TARIFF.**—The new tariff-law of Venezuela, by which the President is empowered to add 25 per cent. additional to all duties, will take effect in the course of this month.

**THE NEW EDITION OF THE GERMAN PHARMACOPŒIA** may possibly be issued towards the end of the present year. It is said not to differ much in its essential form from the edition of 1890, while the methods of the examination and estimation of chemicals, and particularly of drugs, including all powdered drugs, wines, oils, fats, &c., and all pharmaceutical preparations and synthetic products, will be more elaborate and strict in compliance with the progress of analytical and microscopical methods of research and quantitative estimation.

**PRUSSIAN DISPENSING-REGULATIONS.**—In addition to a former order by the Prussian medical authorities that all medicines for external application have to be dispensed in distinctive bottles with pink-coloured labels, a more sweeping order has just been issued requiring that henceforth every prescription has to be copied in full upon the label, or an extra label used on the bottle of any kind of medicine for internal as well as external use prescribed by physicians. All these regulations are intended as a safeguard against mistakes and, perhaps, also against prescribing-pharmacists.

**THE WATSON-COOPER CASE.**—Following the decision of Chief Justice Allen in the action brought by Messrs. A. S. Watson & Co. (Limited) against Mr. E. Q. Cooper, a correspondence has taken place in the Shanghai papers regarding the sentence. A writer who signs himself "Justice" strongly questions if justice was done. This letter brought a reply from Mr. Cooper to the *Shanghai Mercury*, which had offered its assistance to get the case carried to the Privy Council. Mr. Cooper declined this, saying that appeal would mean too long a period of worry and uncertainty. As an appendix to his letter Mr. Cooper gives a complete report of the hearing in December last. The report contains the text of the contract between him and Messrs. A. S. Watson & Co. It is rather a formidable-looking document, which would occupy fully a page of *THE CHEMIST AND DRUGGIST*. It may be useful to quote the most important sections of this agreement, viz.:—

John David Humphreys on behalf of the company hereby engages the said Edwin Cooper as dispensing chemist, and also as general assistant and clerk at Hong-Kong, Shanghai, Canton, Foochow, Hankow, or at any Treaty port of China or Japan, or at Manila, or the Philippine Islands, or the Straits Settlements, or Siam, or Cochin China, for the term of four years, to be computed from the day of his arriving at Hong-Kong, &c. The said Edwin Cooper shall not within twenty years from the date hereof engage directly or indirectly in the business of a chemist, druggist, aerated-water manufacturer, perfumer, wine and spirit or cigar merchant or dealer, or become assistant to any other person or persons carrying on any such business or businesses, whether wholesale or retail, or simply as agent or agents thereto, or as merchant, either at Hong-Kong, or at any Treaty port of China, or Japan, at Manila or the Philippine Islands, or the Straits Settlements, or Siam, or Cochin China, without the consent in writing of the company under the hand of the general manager.

The penalty for breach of the latter clause was 100% per month, so long as the breach continued, and this was the point upon which the Chief Justice decided against Mr. Cooper. It does not appear from the evidence that Messrs. Watson refused "consent" to Mr. Cooper—in fact, he did not ask for it.

**COMMERCIAL TRAVELLERS IN RUSSIA.**—The Board of Trade have received through the Foreign Office further information from the Embassy at St. Petersburg on the new Russian regulations respecting commercial travellers. The principal of a British firm travelling in Russia is not compelled to take out a commercial traveller's licence, but need only pay the trade or industrial-pursuit tax, according as the business is purely commercial or of a manufacturing nature. An agent for a British house resident in a Russian town, if he conducts his business without the assistance of clerks, and without having any special establishments, must provide himself with a personal trading-l licence, the cost of which

is from 10r. to 35r., according to class of locality; but if the agent employs clerks, and has a mercantile establishment consisting of offices, warehouses, shops, &c., he will have to pay 500r. for a trading-l licence. A British firm represented by an agent in any of these localities need not be provided with a trading-l licence if its agent takes orders in his own name, but if he does so in the name of the firm, the latter must be furnished with a trading-l licence. The Board have also received a list of the four classes of localities referred to, together with a schedule of the rates of taxes payable on commercial and industrial enterprises. Persons interested may consult these papers on calling at 7 Whitehall Gardens, S.W., on any day between the hours of 11 and 5. In connection with this tax Mr. Bill, M.P. (Leek), has given notice of a question which he will ask the Under-Secretary for Foreign Affairs in the House of Commons to-night. The question is as follows:—

Whether the Russian Government has lately imposed a tax of 50r. on English commercial travellers carrying on business in Russia, and also a tax of 500r., or over 50%, on the firms which they represent? And whether H.M. Ambassador at St. Petersburg has been instructed to make representations to the Russian Government against such charges, as calculated to check the development of trade between that country and England?

## New York Notes.

(By the Man from London.)

**THE MANHATTAN PHARMACEUTICAL ASSOCIATION**, of New York City, was incorporated on May 25 at Albany. Its directors are mostly prominent and respected pharmacists in New York, and its objects are to advance the interests of registered pharmacists.

**A COURSE IN "CHRISTIAN SCIENCE"** costs about \$50 in New York. Christian scientists are getting into trouble over here, quite a number of persons having died before the faith-cure got its fine work in. They died, it is said, because they were in error, as it is argued that all disease is error, and truth the only cure.

**ANOTHER MAIL COWARD.**—Mr. G. E. Sterry, jun., of the wholesale drug-firm of Weaver & Sterry, Pine Street, N.Y., recently received by mail a pasteboard box wrapped in paper. All unsuspecting Mr. Sterry opened it and took off the cover of the box. As he did so something wriggled out on his hand hissing and writhing. It was a snake about 6 inches long and as thick as a pencil. Fortunately, the reptile was killed before doing any harm, as it turned out to be of a very poisonous species. Mr. Sterry is unable to throw any light upon the matter.

**A PERFUME COMBINE.**—The proprietors of the biggest perfumery-houses in the United States have decided to organise the American Perfume Company, which will, so it is stated, control the perfume-trade in this country. All the firms in the trust will first become stock companies, and will then sell out to the American Perfume Company. The inventories of the various firms are to be dated July 1 next. In determining the value of trade-marks, formulas, goodwill, &c., the plans of the American Tobacco Company will be followed. If Messrs. Colgate & Co., Ladd & Coffin, Alfred Wright (of Rochester), and Seely (of Detroit) join the trust, the capitalisation is calculated to run into about fifteen million dollars or more.

**THE CHARGE OF DRUG-SMUGGLING.**—From the preliminary examination of the men arrested for smuggling drugs into New York, it would seem that the smuggling of phenacetin, trional, sulphonal, &c., from Canada has been carried on very extensively. An agent of the Society for the Enforcement of Criminal Law testified to having met one of the prisoners, named Wooten, on May 5, when he purchased from him 5 lbs. of phenacetin for \$7.50. On May 9 he bought another 5 lbs. of phenacetin, and gave an order to Wooten for a lot of phenacetin, trional, and sulphonal. Wooten saying he could not deliver the goods for a few days, as he was going to Canada to fetch them, at the same time cautioning the agent as to how he disposed of the drugs, as the market-price for phenacetin was \$1 an ounce, and he was getting it for \$3.50 a pound.



**TO WRECK THE SHORTER HOURS BILL**—As a counterblast to the Druggists' League, who have been nearly successful in passing a Bill for shorter hours for drug-clerks in New York, an opposition organisation has been formed, calling themselves the Pharmaceutical Clerks' Association of Greater New York. All pharmaceutical clerks are eligible for membership, and the avowed object of the association is to "promote a more kindly feeling among the drug-clerks of Greater New York, and to advance their interests." Their first business, after the appointment of officers, was to draft a modified Bill on the shorter hours question to replace the Bill at present in the hands of General Roosevelt for signature. A joint conference, consisting of representatives from the Clerks' Association, the Manhattan Pharmaceutical Association, the King's County Pharmaceutical Society, and the German Apothecaries' Association, was held on May 18 to discuss this draft, and, after considerable discussion and disagreement, a measure to the following effect was unanimously agreed to:—

No pharmacist or junior drug-clerk employed in any pharmacy or drug-store shall be required or permitted by the proprietor to work more than seventy hours per week. Nothing in this section shall prohibit the working of six hours' overtime per week for the purpose of making a shorter succeeding week, provided the aggregate number of hours does not exceed an average of 140 hours for any two consecutive weeks. The working hours per day shall be consecutive, allowing two hours for meals. Nothing in this section shall prohibit working overtime in case of sickness, epidemic, or other emergency.

No proprietor shall allow or permit any clerk to sleep in any apartment or room not complying with the sanitary regulations of the local board of health.

These suggestions, after being put into proper phraseology, will be forwarded to General Roosevelt as a substitute for the Shorter Hours Bill, which he is asked to veto.

**ASSISTANTS' PROSPECTS IN NEW YORK.**—Pharmaceutical friends in England occasionally write me in reference to coming out to New York to see if the drug-trade will yield better results under Uncle Sam than it does at home. One unqualified London friend in a recent letter lightly speaks of coming here "just to try his luck." I would not like to say there is no luck in the drug-business, but I am sure that a knowledge of the German, French, Russian, or any other language besides English is worth bushels of luck in New York City. Conditions are very different here from those obtaining in England. Assistants are generally paid weekly, and no notice is necessary on either side to terminate an engagement. Drug-clerks rely mainly upon the ordinary daily newspapers to find positions, as the trade journals are very little used for that purpose here. There is no journal devoted to the drug-trade in America which is to be compared for usefulness in that respect to the *C. & D.* with its weekly Supplement. The first thing an unqualified man must do if he comes to New York is to pass the New York State Board of Pharmacy examination, which entitles him to practise anywhere in the State; or he can take the City Board of Pharmacy examination which gives him the privilege in Greater New York City. Both are very easy to get through, or if he has time, money, and ambition he can graduate either at the New York College of Pharmacy or the Brooklyn College. Every State in the Union has its own Pharmacy Board from which qualification and registration must be obtained before practising. A man registered in New York City must get registered in New Jersey before he can trade as a druggist even in Jersey City, which is only separated by the river from New York. Unregistered men have a very hard task both in getting and keeping positions. In this respect the unqualified assistant is much better off in England than he could ever hope to be in New York, where he would be seriously handicapped by not speaking German. Prescribing experience is useless, as there is very little done over the counter, and an English chemist, unqualified or qualified, having capital and coming to New York, and registering with the idea of starting a drug-store before he has gained experience in American pharmacy and business methods here generally, would probably come to grief. It is significant that only about half-a-dozen English-born pharmacists are in business for themselves in New York, the retail drug-trade being practically in German or German-American hands.

## The Tuberculosis Congress.

Exhibition of Pharmaceuticals in Berlin, described by one who has seen it.

**B**ERLIN is more and more coming into favour as a centre for scientific and professional congresses, particularly for those of applied sciences and arts. During the week from May 22 to 27 an International Tuberculosis Congress was held in the magnificent halls of the German Parliament Palace (Reichstag-gebäude). Included among nearly a thousand participants were some of the foremost medical authorities of the day. The exhibition connected with the congress was largely a repetition of the more comprehensive exhibition of the Red Cross Convention which took place in the vast precincts of the Ausstellungs Park of Berlin last autumn, while the present one is arranged in the apartments of the Philharmonic Hall, one of the largest and finest music-halls of Berlin. It remains open for the public until June 18. The objects admitted to the exhibition are confined to hygienic, sanitary, and medical appliances connected with the prevention of tuberculosis; medicines are excluded except those of a preventive character, such as those used for inhalations. The exhibition nevertheless offers a great variety of interesting objects.

The exhibits are mostly appliances for the relief and treatment of the sick in house and hospital, furniture, clothing, and utensils used in the sick-room, the bath-room, &c., all kinds of ventilators, disinfectors, and disinfectants, and commodities used or recommended for the relief, the comfort, the treatment and nourishment of the sick and the convalescent. Particularly prominent are the artificial foods and food-preparations, and apparatus and appliances for the preparation, preservation, and sterilisation of nutrients.

Among many preparations used for external application in the treatment of various forms of tuberculosis soaps and ointment-bases predominate, among them lanoline and vaseline, plain and medicated. As medicines proper have been excluded, a *modus vivendi* has been found for their admission as a display of the evolution of the form of medicines. Several manufacturing pharmacists of Berlin, Breslau, and Bremen have displays of their products, including gelatin capsules, pills, tablets, pastilles, tooth and mouth washes, and other specialities. Antiseptic paper, containing in a certain area a definite amount of bichloride of mercury in a readily soluble form, is offered for disinfecting-purposes. Notwithstanding the apparently strict scrutiny in the admission of medicines to the exhibition it is amusing to find in the exhibit of California preserved fruits, jellies, and wines, the fig syrup of the California Fig Syrup Company displayed as a representative of the omnipotent American cure industry.

Great Britain is represented by a comparatively small but high-class exhibit of the standard products of Messrs. Burroughs, Wellcome & Co., London. Their display embraces a selection of tabloids for internal, hypodermic, and ophthalmic application, enules, &c. Notwithstanding that the dispensing of ready-made tabloids by pharmacists in Germany has been forbidden, this form of medication is evidently meeting with the favour and appreciation of German physicians.

One of the more modern forms of medication—fluid extracts—is strangely not at all represented in the exhibition. The reason may be that the German pharmacist is prejudiced against this innovation, and seems to have an inadequate comprehension of the advantages, as well as of the proper method of preparing fluid extracts. How much this seems to be the case is illustrated by the first part of a "Pharmaceutical Dictionary" by Max Waldheim, recently issued by a Vienna publisher, containing this remarkable definition of Fluid-extracts: "They are extracts made with dilute acetic acid in place of alcohol; the extract (residue) obtained is evaporated to dryness and then powdered."

**THE GERMAN AMMONIA SODA-WORKS** at Beraberg appear to be as prosperous as are Messrs. Branner, Mond & Co. Last year's profits amounted to 6,417,377m., against 5,379,904m. in 1897. The paid-up capital of the company is 10,000,000m., and the reserve fund is more than double that sum.



## Pharmaceutical Society of Great Britain.

### COUNCIL MEETING.

ALL the members of the Council were present at Wednesday's meeting. The first business was to welcome Mr. Glyn-Jones, the new councillor. The Council next proceeded to elect Mr. Martindale as President, Mr. Newsholme Vice-President (for the third year running), and Mr. Atkins Treasurer. A vote of thanks was passed to Mr. Walter Hills, who had been President for the last three years, and he replied gracefully. Slight rearrangements took place in the membership of the various committees, and after considering the reports of the acting Benevolent and Library Committees, the Companies Bill was referred to. The acting Law and Parliamentary Committee recommended that no action be taken to oppose the Bill in the House of Lords, and that it be left to the Watch Committee to take steps to oppose clause 2 and procure the amendment of clause 3 when the Bill reaches the House of Commons. Mr. Glyn-Jones wanted to know what the Council's policy was on the company question, and moved, as an amendment, that the matter be reconsidered, owing to the change of front of the Government. He wanted to know the reasons which actuated the Council in deferring the opposition to the Bill; but his amendment found no seconder. On the question of unqualified dispensers Mr. Glyn-Jones accepted the suggestion that the subject be referred to a committee, but wanted to make it clear that he did not desire the matter to be shelved. He made it a bit too clear for one of the members. The other matters dealt with were not of great interest.

The usual monthly meeting of the Council took place on Wednesday at 11 o'clock, and lasted till 1. There were present Messrs. Allen, Atkins, Bateson, Carteighe, Corder, Cross, Glyn-Jones, Grose, Harrington, Harrison, Hills, Johnston, Martindale, Newsholme, Park, Savory, Southall, Storrar, Symes, Warren, and Young.

Mr. Walter Hills occupied the chair, and Mr. Newsholme the vice-chair.

The CHAIRMAN said before the minutes of the last meeting were read he would like, in the name of his colleagues, to welcome Mr. Glyn-Jones as a fellow-councillor. Mr. Glyn-Jones was too well known by repute to need an introduction from him, and in the name of the Council he welcomed him. (Applause.)

Mr. GLYN-JONES said he was much obliged for the kind welcome they had accorded him. He trusted that, however long or short his term of office would be on the Council, he would leave them with their respect and good wishes. He would like to add, without having them think he was sorry to have a seat on the Council, that he was sorry to have displaced Mr. Bottle, than whom there was no one he held in greater respect.

The minutes of the last Council meeting and special meeting were then read, and these having been signed as correct,

The CHAIRMAN said that arising out of the minutes he had received letters of thanks from Mr. Ekin and Dr. Clark for having appointed them on the Pharmacopœia Committee, from Mr. Lucas for appointing him as examiner for the Manchester Scholarship, and from Mr. Garsted for the Burroughs Scholarship. The Edinburgh Chemists', Assistants', and Apprentices' Association also wrote thanking the Council for the use of the premises at York Place wherein to hold their meetings. Mr. Boa also wrote acknowledging the receipt of the Privy Council's approval of his appointment as examiner.

### ELECTION OF PRESIDENT.

The CHAIRMAN then announced that the next business was the election of a President of the Society for the ensuing year.

Lists of councillors were then handed round, and each councillor was asked to make a cross against the one he wished to be President. These were collected by the Secre-



MR. W. MARTINDALE.

tary, and twenty of them were found to have a cross against the name of Mr. Martindale, the other paper being blank.

The CHAIRMAN announced that Mr. Martindale had been unanimously elected President.

The PRESIDENT then took the chair vacated by Mr. Hills, and thanked the Council for the honour they had done him in electing him to that position, which had been occupied by such illustrious predecessors. He had had forty years' connection with the Society, of which he had spent ten years on the Council and ten years as an examiner, which had given him an insight into the working of the Society. It had always been a hobby of his to pay attention to pharmaceutical politics whilst pursuing the craft of pharmacy. He was within a few weeks of his sixtieth year, and, although he felt a growing incapacity for work, he would try to do his best to carry on the business in a manner worthy of his predecessors. The duties of the office were onerous, but to assist him he had a Secretary who had been well trained by Mr. Carteighe and Mr. Hills. (Cheers.)

### ELECTION OF VICE-PRESIDENT.

A similar formula was gone through in the election of a Vice-President. In this case there were nineteen votes for Mr. Newsholme, one for Mr. Atkins, and one paper was blank.

The PRESIDENT having then announced that Mr. Newsholme was elected Vice-President for the ensuing year,

The VICE-PRESIDENT thanked the Council for the further honour they had conferred on him. He had found it very pleasant to work with the former President, and had no doubt of a similar pleasure in working with the new President.

### ELECTION OF TREASURER.

A vote was taken as to the councillor who should fill the office of Treasurer. The voting resulted in the election of Mr. Atkins; two of the papers were returned blank.

The PRESIDENT declared Mr. Atkins to be elected Treasurer for the ensuing year, and hoped to have the benefit of his sage advice and help.

Mr. ATKINS returned thanks. He said he very highly appreciated the honour they had done him. He valued their confidence even more—it was the reward that comes to a man who devotes himself to a public life. He would, as Treasurer, follow in the footsteps of a body of distinguished men. In looking through the list he found he had known every one of the Treasurers that had served the Society since its foundation. Mr. Pigeon, senior, the first Treasurer, he remembered to

have met when dining at Jacob Bell's house. It was, perhaps, a confession of his age, but he was not ashamed of that. (Laughter.) Continuing, Mr. Atkins said it was bad taste to make lengthy remarks to business men, but he would like to remark that every position of privilege brought responsibility. That chamber was his House of Commons, and he was the Chancellor of the Exchequer and would have to honour the votes of the house, and he hoped to see a balance on the right side of their accounts. (Hear, hear.) They were, he added, a spending body, and rightly so, and he saw no objection to their spending right up to the hilt.

The standing orders of the Council were then adopted for the ensuing year, after which

The VICE-PRESIDENT rose to propose a

#### VOTE OF THANKS TO MR. HILLS.

He had been closely associated with the late President, and knew that at all times of the day and night he had their interests at heart. He (the Vice-President) did not know what became of the late President's business, but he knew that he attended to the Society's business with great assiduity. He (Mr. Hills) had met with some reward in getting passed an Act of Parliament during his term of office. This was a somewhat novel thing for them, as no Pharmacy Act had passed since 1868 [? 1869]. Not all the credit was due to him, however, as the way had been prepared by Mr. Michael Carteighe; but he was fortunate in having the measure passed in his year of office. There was another matter which was made light of in other quarters; he referred to the Poison Regulations. He (the speaker) felt that a stumbling-block had been removed, and that the regulations would benefit them in the future. The blocking of the Poisonous Substances Bill was another of the late President's triumphs.

Mr. ATKINS, in seconding the resolution, said he would have liked Mr. Carteighe to do it, but his voice was not in form. He seconded the resolution most heartily and most thoroughly. Mr. Hills was one of his personal friends, and he counted it a treasure to have his friendship. He (Mr. Hills) was, moreover, a friend of them all, and his years of office had been marked by success. Mr. Hills had a name and a business to conjure with; he was calm, quiet, honourable, and with a sense of fairness to all which was invaluable. He would retire into a comparatively quiet life with the strong conviction of those at that board, and the country to back them in any extravagant remarks they might make, that he had truly and faithfully served the office of President.

The PRESIDENT said he would like to add his testimony to the graceful manner in which Mr. Hills had conducted the duties of the chair. He (the President) hoped he would be able to conduct them as well, although he knew he could not do them so gracefully.

Mr. HILLS, in reply, said he was extremely gratified to hear the kind words that the President and other gentlemen had used in respect to his work of the last three years. He had tried to do his duty and give everybody a hearing. In discharging his duties he had been aided by the kind consideration of his colleagues. He asked for their consideration three years ago, and they had given it him, for which he thanked them. He wished also to thank those who had been associated with him—the Boards of Examiners, the members of the Society whom he had met and corresponded with, and the permanent staff of the Society. He would like also to thank the representatives of the press for their personal courtesy towards him. He was much obliged to them all.

#### OTHER APPOINTMENTS.

Mr. Richard Bremridge was appointed Secretary and Registrar, Dr. B. H. Paul editor and Mr. J. T. Humphrey sub-editor of the *Journal*, Mr. E. M. Holmes curator of the museums, and Mr. J. R. Hill an Assistant-Secretary in Scotland for the ensuing year.

#### ELECTIONS AND RESTORATIONS.

Fifty-five members and 35 student associates were elected to the Society; 31 persons were restored to their former position in the Society, and 3 to the register.

The various Committees for the year were then arranged in committee. The changes were the addition of Mr. Atkins to the Finance Committee, Mr. Grose and Mr. Glyn-Jones to

the Law and Parliamentary Committee, and Mr. Glyn-Jones to the Finance and Watch Committees. Mr. Harrison's name was almost omitted from the Law and Parliamentary Committee, but the clerical error was detected just in time.

#### FINANCE.

The report of the gentlemen composing the Finance Committee was then read; it showed balance on the—

|                          | £     | s. | d. |
|--------------------------|-------|----|----|
| General Fund Account ... | 1,042 | 3  | 7  |
| Benevolent Fund ...      | 1,225 | 13 | 4  |
| Donation Account ...     | 703   | 3  | 5  |
| Orphan Fund Account ...  | 230   | 7  | 3  |

There was submitted for payment the sum of 1,294*l.*, which included 753*l.* on account of the *Journal*.

The PRESIDENT, in moving the adoption of the report, said there was nothing unusual in the report. May was always a spending month, and there was never much coming in.

The report was adopted.

#### BENEVOLENCE.

The report of the gentlemen who had considered the Benevolent Fund applications was then considered in committee. It recommended three grants of 10*l.*, and announced the death of an annuitant, George Ramsden, who was elected in 1896.

The VICE-PRESIDENT, in moving the adoption of the report, said that in regard to one of the grants of 10*l.*, further inquiries were being made, with a view of giving the applicant further assistance if necessary.

The report of the acting

#### LIBRARY COMMITTEE

was then read. It dealt with the attendances and donations at the museum and library, and recommended that Messrs. Payne, Wallace, Nundy, and Garsted be admitted to the Research Laboratory.

Mr. HILLS moved the adoption of the report. The four gentlemen named were to be admitted to the Research Laboratory for the remainder of the session.

The report was adopted.

#### THE COMPANIES BILL.

The PRESIDENT said that copies of the Companies Bill were on the table.

The report of the acting Law and Parliamentary Committee was then read. It recommended that it be left to the Watch Committee to oppose the Bill, but not till it reached the House of Commons. Clause 2 was to be vigorously opposed, and they were to take steps to secure the inclusion of pharmaceutical chemists and chemists and druggists in Clause 3.

The PRESIDENT said, in regard to the Pharmacy Bill and Companies (Medical Profession) Bill, there had been a change of front since they last met. These Bills had become Clauses 2 and 3 of Lord Dudley's Companies Bill, which had been read for the first time in the House of Lords. [Read a second time and considered by the Select Committee.—Ed.] Clause 2 of the Companies Bill (the Pharmacy Bill portion) now read prohibitively—

No company may carry on the business and use the description of a pharmaceutical chemist or chemist or druggist unless such business is *bona fide* conducted by a manager or assistant being a duly registered pharmaceutical chemist or chemist and druggist, as the case may require, and unless the name of the person so qualified is conspicuously posted in the shop or other place in which the business is carried on, but, subject to this provision, anything which would be an offence under section 15 of the Pharmacy Act, 1868, if committed by an individual, shall be an offence if committed by a company

—otherwise it was the same. The alteration did not alter their position, and they must strenuously oppose that clause when opportunity occurred; the Government wish the law made to meet the law's decision. The Bill proposed to take away their titles and throw them broadcast.

He who steals my purse steals trash,  
But he who filches from me my good name  
Robs me of that which not enriches him  
And makes me poor indeed.



This robbing us of our good name must be strenuously opposed, continued the President. A body corporate cannot be examined, as Lord Selborne said, and, therefore, we hold it cannot carry on a personal business. The Lord Chancellor cannot see the injustice of treating one class in one way and another in another. We think it best to lie low, and only use our personal influence when opportunity occurs. It is not advisable to make much agitation at present, but to reserve our efforts until such time as they will be of greater effect. We propose to try and get our names included after the word "dentist" in Clause 3. In moving that the report be received, the President added that he considered it an injustice that they should be treated in one way and another professional class in another way.

Mr. HILLS, in seconding the adoption of the report, said he would like to remind them that, after having been told it was impossible to amend the Companies Act, it had been done, although not on lines which they suggested at the time. A short time ago it was suggested by the Law and Parliamentary Committee that action in the matter be not begun until the Bills came before the House of Commons. The wisdom of that step had been shown, as the Bills never reached the House. He asked their friends to extend the same confidence to them now that they did when this policy was announced, and to wait, but, at the same time, he did not wish to tie their hands in any personal appeal they might make to any peer they knew. Let them trust to them to say when the proper time had arrived to oppose the Bill; then it would be important to act at once. In a Companies Bill there was only one action. If one side was protected, they must apply the same protection to all who have undergone special training; the protection should not apply to one side only, but to all professional bodies alike. He had great pleasure in asking them to pass the resolution, which affirmed their previous policy, and pledged them to oppose Clause 2 tooth and nail, and procure the amendment of Clause 3.

Mr. GLYN-JONES said he would like to have one word now. The President had already told them that since the last meeting there had been an important change of front in reference to the Pharmacy Bill. He took it that whatever doubt there might have been of the Bill being a Government measure had been settled by the inclusion of it in the Companies Bill. He would suggest that this was a reason for referring the matter of company-pharmacy to the Law and Parliamentary Committee of that Council. Personally he was not sure what the position of the Committee was which had recommended the course that was now proposed for adoption; he did not know when the old committee ceased to exist. Was it not a new Council and a new Committee? He would like to have some information on the subject, and to know what the policy of the Council on company-pharmacy was. What, he asked, was their relation and intention in regard to the Bill? It was a matter of common knowledge that the General Medical Council had made repeated attempts to get their clause included in the Companies Bill, but from what transpired last week it appeared they knew as little about the Bill as was known outside, or even on the Council itself. From his conversation with the rank and-file of chemists throughout the country he found they were anxious to know something definite in regard to the Council's attitude on the company question. There were companies and companies. He did not ask information at an open meeting if it was not desirable that it should be given, but he did think that before they asked a member of the Council to support such a resolution some information should be given him. It struck him very forcibly that this being a Government measure it was necessary to make very strenuous efforts to let their views on the question be known. It mattered little where the opposition was made, and it appeared to him right that they should take the first opportunity of proclaiming their just rights. He did not know if the suggestions on the Pharmacy Bill, which they made some time ago, were an ultimatum, and would like to know. He did not want to press the matter, but merely mentioned it to learn if the recommendations of the last Council were binding on the new Council. He thought that the sooner the Council made known their position the better, and moved as an amendment that in consideration of the change of front the whole matter be referred to the Law and Parliamentary

Committee with a view to deciding on a definite line of action.

The PRESIDENT: Do you therefore move an amendment?

Mr. GLYN-JONES: Yes.

The PRESIDENT: Will you write it down?

Mr. YOUNG and Mr. CARTEIGHE here said that it was a continuation of the policy of the last Council that the Bills should be opposed.

Mr. GLYN-JONES: Yes; but the President has told us there has been a change of front.

Mr. STORRAR said he sympathised somewhat with Mr. Glyn-Jones, but he would like to suggest that the resolution of the Law and Parliamentary Committee be passed, and that another be made referring the matter for reconsideration. The Bill might be in the House of Commons before they met again, and he took it that they could not allow the clause to be made law without some protest. He thought they ought to at once make a protest when any attack was made on the Pharmacy Act.

Mr. Glyn-Jones then handed his amendment to the President, but no one could be found to second it.

Mr. YOUNG said as he understood it Mr. Glyn-Jones's point was that the Companies Bill ought to be opposed in the House of Lords.

The PRESIDENT, in putting the original motion to the meeting, said they were merely continuing the policy of the old Council, and it was for the Council to say if they were to go on in the same way. They held that the same proposals were before them, although they were now included in the Companies Bill.

The resolution was carried, Mr. Glyn-Jones being the only dissident.

#### UNQUALIFIED DISPENSERS.

The PRESIDENT then referred to the resolution sent to the Council from the annual meeting, when Mr. Glyn-Jones moved that the question of the employment of unqualified dispensers by medical men be referred to the Council for consideration. They might have seen, the President said, that the General Medical Council had appointed a committee to investigate and report on the subject, and he did not know if, taking that into consideration, Mr. Glyn-Jones still wanted the matter discussed by the Council. It would not be to their advantage to clash with the G.M.C. in this matter. He proposed that the matter be referred to the General Purposes Committee.

Mr. GLYN-JONES hoped they would not refer it to the General Purposes Committee unless they meant it to be considered. He had tried to get some information as to what the General Medical Council were going to do, and his information was that the subject was of such importance that it would not be dealt with in the present session of the General Medical Council. From this he inferred that it would not be considered by them till October. The only thing he felt was that they as a Pharmaceutical Council ought respectfully to say to all parties concerned that they had a right to be consulted on matters connected with pharmacy.

Mr. CARTEIGHE: May I ask what Mr. Glyn-Jones is talking to?

Mr. GLYN-JONES: I want to make it quite clear that the object of referring the matter to the General Purposes Committee is not to solve it.

Mr. CARTEIGHE: We are not in the habit of referring matters to that committee for the purpose of shelving them.

Mr. GLYN-JONES: Other bodies do, I know.

The subject was referred to the General Purposes Committee to deal with.

#### LETTERS.

The Colonial Office wrote regarding the Pharmacy Ordinance of Gibraltar, and asked that the Ordinance be laid before the Society, and that they would favour it with any observations they might make.

The PRESIDENT said there were some difficulties to be considered.

The letter was therefore referred to the General Purposes Committee for reply.

Letters of confidence in the Council, and expressive of sympathy with them in the course they had taken in regard to the Pharmacy Bill, were received from the Dewsbury Chemists' Association, the Bradford Chemists' Association, and the Edinburgh Chemists', Assistants', and Apprentices' Association.

The PRESIDENT said that, now a change of front had taken place, he moved that they inform the correspondents that the Council would act on similar lines again.

The Derby Association sent a resolution to the Federation of Local Associations asking them to forward it to the Pharmaceutical Society, which they did.

The Privy Council had formally approved of the appointment of Mr. Boa as a member of the Board of Examiners for Scotland, in place of Mr. Maben.

This finished the public business.

#### NORTH BRITISH BRANCH.

A MEETING of the members of the Society residing in Scotland will be held in the Society's house, 36 York Place, Edinburgh, on Friday, June 8, at 11 A.M., for the purpose of electing the Executive for the ensuing year. The following are the names of those who have been proposed for the vacancies (17):—

Anderson, Alex. Black, 38 Princes Street, Dundee.  
Ayre, George Martin, 75 High Street, Perth.  
Baker, William Charles, 15 Dundas Street, Edinburgh.  
Boa, Peter, 119 George Street, Edinburgh.  
Bowman, John, 3 Duke Street, Leith.  
Burley, William, 35 George Street, Edinburgh.  
Cowie, William Beaverley, 26 Clyde Street, Edinburgh.  
Cummings, Charles, 49 Reform Street, Dundee.  
Currie, William Little, 223 Byres Road, Glasgow.  
Dey, Alex. John, 21 Duke Street, Edinburgh.  
Ewing, James Laidlaw, 104 South Canongate, Edinburgh.  
Fisher, John Hutchison, 66 High Street, Dunfermline.  
Foster, John, 479 Sauchiehall Street, Glasgow.  
Gilmour, David, 40 Bridge Street, Dunfermline.  
Glass, William Stephen, 193 Morningside Road, Edinburgh.  
Harley, Thomas, 21 High Street, Perth.  
Henry, Claude Francis, 1 Brandon Terrace, Edinburgh.  
Hunter, Andrew, 4 North Bridge, Edinburgh.  
Kerr, Charles, 56 Nethergate, Dundee.  
Lawrence, Samuel, 101 George Street, Oban.  
McAdam, Robert, 34 Virginia Street, Glasgow.  
McDiarmid, Fraser, Junction Bridge Works, Leith.  
McDougall, Rea Ireland, 1 Gladstone Place, Leith.  
McLaren, David, 42 South Clerk Street, Edinburgh.  
Macpherson, Colin Allen, 97 Dalry Road, Edinburgh.  
Mitchell, Donald, 30 Union Street, Inverness.  
Naysmith, Andrew, 211 High Street, Arbroath.  
Robertson, William George, 9 Bonnygate, Cupar Fife.  
Russell, James Anderson, 211 New City Road, Glasgow.  
Strachan, Alex., 138 Rosemount Place, Aberdeen.  
Swan, William, 92 Morningside Road, Edinburgh.  
Thomson, John Hutchison, 102 High Street, Lochee, Dundee.  
Tocher, John, 84 High Street, Dumfries.  
Watson, David, 558 Cathcart Road, Gowanhill, Glasgow.

The majority of these are members of the present Executive.

#### Spectacle-makers' Company.

THE following are the questions in general and visual optics which were set to the candidates for the diplomas of the Company at the written portion of the examination, which took place on June 6. The time allowed for the paper was three hours:—

1. An object at 18 inches from the centre of a simple convex lens has an image at 24 inches on the other side. What is the power of the lens? At what distance from the lens will a beam of rays meet which start from a point 8 feet away?

2. How would you measure the distance of a vertical image from the lenses through which it is viewed?

3. Explain briefly why it is that two cylindrical lenses of equal power and sign (say +2 D C) with their axis of curvature at right angles to one another are equivalent to a spherical lens of power equal to either. What would be the effect of changing the sign of one of them?

4. Where a lens of short focus, say +20 D, is combined with a -20 D lens close to it, but not touching, it is found that they do not exactly neutralise each other. Explain this fact, and show what difference it makes which of the two lenses is the nearer to the eye.

5. Explain with a diagram the principle of the kaleidoscope. At what angle must the mirrors be set to obtain a pentagonal pattern?

6. Calculate the glasses required for reading at 16 inches, and also for distant vision, by a person whose age is 50, whose near-point is 66 cm, and whose far-point is found to be at the same distance when he is furnished with +3 D lenses.

7. A person complains of not being able to see distant objects sharply. Explain by what simple methods, without the use of instruments or trial glasses, you could ascertain whether the defect of sight was due to—(1) The retina being out of focus. (2) Some disease of the eye. (3) Astigmatism. (4) Presbyopia.

8. You will notice on some of Snellen's cards the formula  $V = \frac{d}{D}$ . Explain what this means. Why is it considered necessary for the types to be placed at 6 metres away? In what way does this help you in selecting reading-glasses?

9. A is Emmetropic, B is Myopic 3 D, C is Hypermetropic 3 D). The p.p. in each case is at 12.5 centimetres. What is the age of each person?

10. How would you ascertain that the prisms are correctly set in a spectacle-frame, and that the number of degrees corresponded to the prescription given? Explain the meaning of the signs, 2, 2 d, and 2<sup>a</sup>. How would you represent the two latter in terms of the first?

#### Proposed Optical Society.

A MEETING of the optical trade was held on June 5 at the Salisbury Hotel, E.C., which may assume the importance of the historic meeting at the Crown and Anchor, when the Pharmaceutical Society was founded. The object of the meeting was to form an optical society. Mr. W. H. E. Thornthwaite, Master of the Spectacle-makers' Company, was in the chair, and in the room were about 120 members of the optical trade. The proceedings were at first somewhat informal, and all sorts of curious procedure were proposed until one gentleman protested, and said they ought to found the Society in an "English and constitutional manner." The items of the agenda were then gone through in order. The first one—to fix a title for the Society—was deferred, as it was pointed out there were no members or officers as yet elected, and therefore nobody to settle this matter. This reminded the meeting that some officers ought to be elected, and this proposal created a good deal of discussion. The committee who had brought the meeting together wanted to be elected as a permanent council, but the meeting voted unanimously against that, and then appointed Mr. Thornthwaite, President Mr. Salt Secretary and Treasurer, and Messrs. Gregory and Thornthwaite auditors. To determine the object of the Society was the next matter, and after some discussion the following were settled as desirable objects:—

(a) To promote social and scientific intercourse between all those engaged in the optical industry or interested in optics.

(b) To foster and disseminate knowledge of optical matters.

(c) To arrange lectures, discussions, and demonstrations on optical science and instruments.

(d) To provide trade information.

(e) To promote the establishment and adoption of standard sizes, gauges, calibres, and templates for use in the optical trade.

(f) To generally watch the interest of opticians, and combat fraudulent or improper practices in the optical trade.

It is due to Mr. Dallmeyer that the words "or interested in optics" was added to clause (a). Other speakers spoke of the advantages of having scientists as members, and disclaimed any intention of making the Society a trade-union. Some of these remarks were especially directed at one gentleman who wanted to know whether the Society was for pure opticians, or if it was proposed to admit "all jewellers or chemists who sell spectacles?"

Mr. Grey proposed, as another object of the Society, that it "take steps to further the sale of British-made articles"; but the motion fell through when, in answer to the Chairman as to how many present sold only British goods, but two hands—those of Mr. Dallmeyer and Mr. Raphael—were raised.

The appointment of a committee was deferred to a month hence, and the suggestion that there should be two grades of membership was unanimously negatived. The subscription is to be one guinea for all applicants who signify their intention to join before next meeting. Seventy-six names were handed in during the evening. The Secretary, Mr. W. Salt, 68 Hatton Garden E.C., is also open to receive suggestions as to the name of the Society, which will be considered at the next meeting.



## Chemical Society.

DR. W. H. PERKIN, F.R.S., sen., presided at the meeting held in Burlington House on June 1, when the attendance was fairly good, and included about half-a-dozen ladies. The preliminary business was trifling in amount, and the way was soon cleared for Mr. W. Poppewell Bloxham to communicate his paper on

### THE HYDROSULPHIDES, SULPHIDES, AND POLYSULPHIDES OF POTASSIUM AND SODIUM.

The paper was a big bundle of foolscap, 3 inches thick, and represented work done at the Naval College, Greenwich, and continued in the Davy-Faraday Research Laboratory, the director of which (Dr Alexander Scott) is also, fortunately, a secretary of the Society, and he mercifully kept the MS. on his side of the lecture-table, allowing Mr. Bloxham to occupy Professor Dunstan's side with a few sheets of notes to guide him in the summary which he was to give to the meeting, and which occupied the better part of an hour. It was a horrible outlook for those Fellows who did not know Mr. Bloxham. He had not proceeded far when it transpired that the subject was one not only of absorbing interest, but exceptionally amusing. Mr. Bloxham has a subtle wit. He told how the research commenced with an endeavour to find out the exact composition of polysulphides. He took ammonia first, because its sulphides are easiest formed, and got as far as to prove that  $(\text{NH}_4)_2\text{S}_x$  is the only polysulphide that will dissolve in water as such, others breaking up into hydroxides and hydrosulphides. The investigation became so complicated, and the health of the investigators so much in danger by the ammonia-sulphide vapour, that the examination of potassium and sodium sulphides was taken up instead. The author found, from an examination of the literature on the subject, that all the work appeared have been done. He proceeded, however, and as progress was made one worker's results after another's was found to be utterly incorrect. It seemed a very easy thing, and, according to the books, a possible thing to act upon KOH with sulphuretted hydrogen in presence of sulphur so as to get the sulphide; but Mr. Bloxham found that the product always contained thiosulphate, in this way differing from ammonia, which yields sulphide only. That led him to seriously put the question to the Fellows of the Society, "Is solution of ammonia really a solution of ammonia hydroxide, seeing it yields sulphides only on treatment with sulphuretted hydrogen?" It appeared to him that the ammonia might exist in the solution in  $\text{NH}_3$  molecules, which feasible suggestion rather impressed the meeting. There are two ways of preparing sulphides of potash and soda—the dry way and the wet. Mr. Bloxham tried all the dry ways which according to text-books yield polysulphides, but in no case could he get them; the wet methods also failed. He then proceeded to tell the meeting how he had obtained a sulphide of potash,  $\text{K}_2\text{S}$ , with twelve, five, and two molecules of water of crystallisation. He showed that these are all white salts, although they crystallise from red solutions, and differ in crystallographic form. But he would say nothing definite about the crystallography of the sulphides, because he knew nothing about it, nor anybody who knew anything about crystallography, at least, in his immediate vicinity—which remarks sent the meeting into fits of laughter, that became quite dangerous when Mr. Bloxham described one of the sulphides as "a solidified ace of diamonds." He also amused the meeting greatly by pointing out that some of these salts had hitherto been described as coloured, he wondering what was the condition of the authors when they saw white things red. Mr. Bloxham proved that these sulphides are exceedingly stable when heated. He had taken the one containing five molecules of water, and heated it to  $500^\circ \text{C}$ ., but it only lost water. It was equally stable in solution. His endeavours to prepare potassium hydrosulphide by the dry method failed, but it was obtained by acting upon solution of caustic potash with sulphuretted hydrogen in the presence of petroleum ether.

In the next section of the paper Mr. Bloxham described the preparation of the sodium sulphides, and, strange to say, sodium in this case behaves more like ammonia than

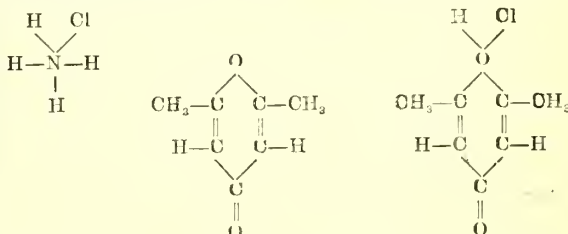
potassium. He obtained a new compound,  $\text{NaHS} \cdot 3\text{H}_2\text{O}$ , in crystals. This has been described before, and methods for preparing it have been given, but following these carefully he could not obtain them. Incidentally he mentioned that solution of sodium hydrosulphide melts of sulphuretted hydrogen, but that of potassium sulphide does not. Sodium hydrosulphide does not decompose by boiling in water. Mr. Bloxham also mentioned that Rosé did excellent work on this subject in 1842 which he has confirmed in the main, and if all who had worked on the subject between Rosé and him had only read Rosé's paper, they would have ceased from troubling. The conclusion that Mr. Bloxham came to on this branch of the subject was that normal sulphide ( $\text{Na}_2\text{S}$ ), when dissolved in water forms a solution of NaOH and NaHS, but, independently, a hydr-sulphide exists as such. As to the polysulphides,  $\text{Na}_2\text{S}_x \cdot 4\text{H}_2\text{O}$  is the only one which is stable in aqueous solution. There is a whole series of polysulphides which are tetra-atom compounds (potassium polysulphides similarly), beginning  $\text{Na}_2\text{S}_{10} \cdot 2\text{H}_2\text{O}$ . One can never be quite sure what is to happen when the lower sulphides are acted upon by sulphuretted hydrogen, because the sulphur in this case does not attack the whole of the sulphide, but selects a portion of it, pushes it up into a corner, and eats into it as hard as it can, leaving the rest go. The sulphur behaves as an  $\text{S}_8$  molecule too, which is why the polysulphides comes out tetra-alkaline. (This and much more will be found in Mr. Bloxham's paper when it is published (probably in the dog days). Professor J M Thomson complimented him upon the splendid results of his research, and Dr. Sydney Young, F.R.S., of Bristol, next had the ear of the meeting for fifty minutes, while he told them all about

### STILL-HEADS.

This related purely to fractional distillation, and its object was to show the relative efficiency of various forms of still-heads. Dr. Young submitted samples of a number of heads constructed by himself, and drawings of others, as well as several tabular statements of results obtained by fractionating a mixture of benzene and toluene. The communication brought out some unexpected facts of interest to those who do fractional distillations, but it would be useless to attempt to summarise these without the figures and illustrations, which are reserved for the Society's publications. After some discussion of a complimentary character, the meeting found itself on the stroke of 10 o'clock and the Chairman in fear of losing his train to Sudbury; but Professor Ramsay came to the rescue, taking the chair while Dr. Norman Collie gave the gist of a paper by Mr. Thomas Tickle and himself on the salts of dimethyl pyrone, and

### THE TETRAVALENCE OF OXYGEN.

The latter part of the title became the principal. Dimethyl pyrone is a carbon-ring compound which two or three years ago Dr. Collie found to unite with hydrochloric acid, forming a crystalline compound, which he did not care to call a salt, because that would have been quite contrary to accepted theories. Mr. Tickle and he have now succeeded in combining the base—if it may be so called—with nitric and other acids, and they are forced to the conclusion that salts are really formed, as in the case of ammonia compounds, the oxygen atom in the ring behaving towards the acid like the nitrogen atom in ammonia. The following formulae show how:—



Here it will be seen the oxygen atom in the ring becomes tetravalent in order to bind the hydrochloric acid to the molecule. This is not a mere feat of imagination, for careful experiments, including some electrolytic, proved that the acid is inherent in rather than adhering to the molecule.

There is, however, no substantial reason why oxygen should not be considered polyvalent, except that we have been accustomed to think otherwise. Hydrogen peroxide has been generally regarded as  $\text{H}-\text{O}-\text{O}-\text{H}$ , but it has been

shown that a formula such as  $\begin{array}{c} \text{H}-\text{O}-\text{H} \\ || \\ \text{O} \end{array}$  better illustrates

the properties of the article. Dr. Collie discussed what this change of valency may imply to chemistry, and, according to his showing, it will be little short of a revolution, while he silly indicated that many coloured compounds would, under the tetravalent-oxygen régime, be considered as quinoid, whereby the heart of Professor Armstrong will be satisfied.

Professor Ramsay and Mr. Cross briefly commented upon the communication. They apparently admired it; but the hour was too late for thinking the matter out.

## Society of Chemical Industry.

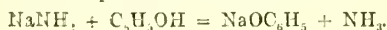
### LONDON SECTION.

ON Monday evening the temperature was high in the neighbourhood of Piccadilly, and Burlington House was not the coolest place on earth, yet Mr. Boverton Redwood presided over a goodly gathering of the members of the Society therein. Many of them had come from the Hotel Previtali, where the Chemical Industry Club was winding up its financial year with about a sovereign in hand, so low is the subscription and so large the hospitality of the diners. Mr. Fuerst, of the New York Section, acknowledged the "toast of 'The Guests.'" The first of the papers read at the meeting was by

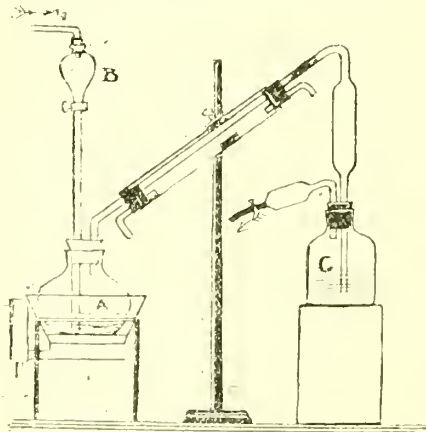
Dr. S. B. Schryver, of the Wellcome Research Laboratories, on

#### A NEW METHOD FOR THE ANALYSIS OF COMMERCIAL PHENOLS.

Dealing first with analytical processes depending upon the precipitation of bromine derivatives, the author critically reviewed the work which has been recorded on this process, and called attention to a reaction described by Tilleley in which sodium amide reacts with alcohols liberating ammonia. Thus in the case of phenol the reaction is—



The author utilises this reaction, using the apparatus here figured. About 1 gramme of finely powdered sodium amide



is put into a 200-c.c. flask, A, with 50 to 60 c.c. of benzene. The mixture is boiled on a water-bath for ten minutes, a current of dry air free from carbonic-acid gas being passed through it and the funnel B by means of an aspirator or water-pump. The object of boiling is to get rid of the traces of ammonia which adhere to the amide. Into the bottle C 20 c.c. of normal sulphuric acid is put, and the phenol, dissolved in six times its weight of benzene, is placed

in the funnel B, and is allowed to slowly drop into the flask while the boiling proceeds, the current of air passing through as before. The funnel is washed with a little benzene, and boiling and aspiration are continued until the ammonia is wholly absorbed. The amount of standard acid neutralised is then determined in the ordinary way. The method gives good results, and the author gave several hints which ensure practically absolute accuracy, one of the principal points being that the benzene should be free from thiophene. Xylene or toluene may be used instead. He gave results with phenol, cresol, thymol, and guaiacol, showing that the error is generally about 1 per cent. of the amount of the phenol taken, but in a fourth of the estimates the results were identical with the quantities taken. He showed the influence of mixtures upon the method by describing experiments with a mixture of cresol and pure phenol made to simulate commercial carboic acid. Incidentally he referred to the hydroxyl value of such mixtures, by which is meant the number of c.c. of standard [normal] sulphuric acid required to neutralise the ammonia given off by 1 gramme of a phenol when treated with excess of sodium amide as described. The hydroxyl value of phenol is 10.63 and of cresol 9.26, and judging from the values obtained the process gives only a rough approximation of the relative proportions of mixtures like cresol and phenol. Thus phenol containing 10 per cent. of cresol gave 10.49, with 20 per cent. 10.35, with 40 per cent. 10.08, with 60 per cent. 9.78, and pure cresol 9.26.

The author then described experiments with guaiacol obtained from wood-tar, which is a mixture of the homologues guaiacol and creosol, which cannot be separated by fractional distillation. A specimen was fractionated, and the fractions were assayed by the method described, the results showing that the first fraction (204-205° C.) gave a hydroxyl value of 9.35, this value decreasing with the boiling-point of the fractions until that at 212-214° C. gave 7.73. Pure guaiacol boils at 205.1° C., and creosol at 221-222° C. The hydroxyl value of the former is 8.06 and of the latter 7.25. Proof was also submitted showing that the method is applicable to the estimation of thymol in oil of thyme and of eugenol in oil of cloves, the conclusion being arrived at that the process is applicable to more purposes than other phenol-estimating processes.

Dr. Schryver exhibited the apparatus as signred; also the apparatus designed by Dr. Tilleley for the production of sodium amide by passing dry ammonia-gas over metallic sodium. The Chairman, in leading off the discussion, seemed doubtful of the value of the process; and Dr. Lewkowsitch questioned if it could tell how much phenol there is in a commercial carboic acid containing phenol and cresol; which was also Dr. Samuel Rideal's doubt, as in his experience the molecular weights of cresol and phenol are too close to enable one to differentiate between them. Koppeschaar's method he considered the best and most widely applicable. Mr. Ling (Hon. Local Secretary) also questioned the utility of the new method, but Mr. Otto Hehner stopped the flood of depreciation by saying that every addition to the methods for the estimation of phenol which embodies a new idea is good. All the same, he too thought that the presence in phenol of other hydroxy bodies would vitiate the results, and he could not see wherein it was better than other methods for estimating phenol in carboic powders and soaps. The point of the discussion, in short, was that as water and other hydroxy bodies also give ammonia in reacting with sodium amide, one has practically to ensure that nothing of that class but phenol is present before beginning an assay. Not at all, replied Dr. Schryver. The details given in the paper showed the limitations of the process, and if it were for nothing else than the estimation of thymol and eugenol in the essential oils from which these phenols are obtained, the process is worth having. At which the meeting gave the doctor a cheer, and the next business was taken up, Dr. S. Rideal giving a demonstration of

#### GHOSTLIKE PRINTING

"by electricity without the aid of rollers or ink." Mr. Fries Green, the inventor of the process, demonstrated, and Dr. Rideal spoke. The principle is electrolytic reduction of a silver salt, or other metallic compound, with which the paper is impregnated; or if paper or other fabric moistened



with water is placed over a printable metallic surface, such as silver coins, connected with the apparatus, a thin film of the metal is transferred to the fabric. We could not see the apparatus well, and the details were not quite clear, but one of the examples of the printing by electricity was to the following effect:—

Progress is life. Therefore printers who wish to be up-to-date and increase their profits should discard ink, rollers and suchlike details, and print by electricity, under patents belonging to the Electrical Inkless Printing Syndicate (Limited), Clifton Mansions, Coldharbour Lane, Brixton, S.W.

As the process seems to have a future before it we give it this free advertisement.

Mr. Bevan (Cross & Bevan), as soon as Dr. Rideal resumed his seat, rose up with a patent-specification in his hand to claim priority of discovery, and was followed by that photographic veteran, Mr. John Spiller, who saw nothing novel in the show, and pointed out that the printers' ink was in the paper and the rollers were in the apparatus. After which there was more arguing about priority, which a suggestion to adjourn the discussion to the Court of Queen's Bench could not stop, although it seemed to make the fight pleasanter. Dr. Rideal replied, and Colonel Waterhouse made a communication on the use of iron as the active element in primary batteries, which was followed by one on

#### COCOA BUTTER.

Dr. J. Lewkowitch read the notes on this subject, most of the facts advanced being contained in the following table:—

| No. | Melting-point | Solidifying Point Fatty Acids | Saponification Value | Reichert-Meissel Value | Iodine Value |
|-----|---------------|-------------------------------|----------------------|------------------------|--------------|
| 1   | 26.6-28       | 47.2-49.2                     | 191.8-194.5          | 0.38-0.94              | 34.24-36.99  |
| 2   | 28.4          | —                             | 192.9                | 0.50                   | 35.65        |
| 3   | 27            | 48-48.27                      | 192                  | 0.20                   | 36.92        |
| 4   | 28.33         | 48.55-49.1                    | 191.5                | 0.38                   | 35.37        |
| 5   | 27.2-33       | —                             | 191.3                | 0.83                   | 34.55        |

No. 1 gives the results of examinations of commercial samples received in the ordinary way of business. No. 2 was made by the author, No. 3 was a genuine sample kept for ten years in a sealed bottle, No. 4 was genuine and fresh English cocoa-butter, and No. 5 was Dutch ditto. The values obtained were those hitherto accepted but the Reichert-Meissel number, and the author suggested that this factor should be abandoned.

In the course of the paper the author discussed the question whether cocoa-butter becomes rancid or not, and he showed by analytical figures that it does. He supposed that the idea that it does not become rancid was due to its use by pharmacists who find that relatively it does not become rancid quickly, which is the truth because the fat has the lowest iodine value of vegetable fats, and this value is a measure of the rapidity with which a fat becomes rancid; for the higher the value the more easy is rancidity.

The paper gave the opportunity for a pleasant passage of arms between Mr. Hehner and the author.

#### NOTTINGHAM SECTION.

A MEETING was held on May 31 at the George Hotel, Nottingham, Mr. J. O'Sullivan in the chair. Mr. L. Archbutt, F.I.C., contributed a short communication on

#### NEW ANALYTICAL METHODS,

during the course of which he described a process for the estimation of nickel in steel. Although not originating there, it has been greatly improved in the laboratory of the Midvale Steel Company. The process depends on the property possessed by ether of dissolving ferric chloride. If ether be added to a solution containing the two salts and the mixture well shaken, on standing the ether will rise to

the top bringing with it the ferric chloride. The nickel will remain in the bottom solution, which will contain a trace of iron. By repeating the process the iron can be completely removed, and the percentage of nickel present is most readily ascertained by electrolysis. The apparatus for effecting this was exhibited.

Mr. Golding thought the process might be useful in separating iron from basic slag. Dr. Sudborough said that the method had been adversely criticised in the *Journal of the Chemical Society* last year.

The Chairman mentioned that although ether is a solvent of salicylic acid he had never been able to completely separate the acid from solutions containing it. Mr. Archbutt, in reply, said he had found the method to yield more accurate results than those usually employed.

Mr. J. T. Wood exhibited an apparatus for

#### THE CULTIVATION OF BACTERIA ON A LARGE SCALE.

In this the pure culture is first developed in a test-tube, then introduced into a Pasteur flask, and in due time the colony is transferred into a Carlsberg vessel containing the necessary nutrient medium. From this the liquid containing the culture can be tapped for industrial purposes.

Mr. John Golding then read a paper on "Sugar as an Agent in Nitrogen-fixation and an Aid to the Growth of Plants."

## Gazette.

#### PARTNERSHIPS DISSOLVED.

Robinson, H. F., and Kay, F., under the style of the Spring Valley Chemical and Colour Company, Fallowfield, near Manchester, chemical and colour manufacturers.

Sherwood, J., and Morris, J., under the style of Sherwood & Morris, Wolverhampton, mineral-water manufacturers.

## Deed of Arrangement.

Owen, William, 60 High Street, Pwllheli, chemist, grocer, and wine and spirit merchant. Trustee, William O. Hughes, Pwllheli, bank-manager. Dated, May 29; filed, June 3. Secured creditors, 100%: liabilities unsecured, 2,838*l.* 15*s.*; estimated net assets, 650*l.* The following are scheduled as creditors:—

|                                                   | £   | s. | d. |
|---------------------------------------------------|-----|----|----|
| Allen & Hanburys, London .. .. .                  | 15  | 0  | 0  |
| Alisopp, S., & Son, Burton .. .. .                | 300 | 0  | 0  |
| Ayrton & Saunders, Liverpool .. .. .              | 37  | 0  | 0  |
| Baines, —, Birmingham .. .. .                     | 48  | 0  | 0  |
| Board & Son, London .. .. .                       | 43  | 0  | 0  |
| Bunyan, Robinson & Co., Manchester .. .. .        | 43  | 0  | 0  |
| Churton & Co., Liverpool .. .. .                  | 124 | 0  | 0  |
| Cooper, W., & Nephews, Great Dockhamstead .. .. . | 23  | 0  | 0  |
| Davies, E. R., Pwllheli .. .. .                   | 150 | 0  | 0  |
| Eley Brothers, Birmingham .. .. .                 | 19  | 0  | 0  |
| Ellis, R., & Sons, Ruthin .. .. .                 | 78  | 0  | 0  |
| Evans, Sons & Co., Liverpool .. .. .              | 150 | 0  | 0  |
| Haig, J., Manchester .. .. .                      | 90  | 0  | 0  |
| Harwood, —, Carnarvon .. .. .                     | 15  | 0  | 0  |
| Hearon, Squire & Co., London .. .. .              | 94  | 0  | 0  |
| Jones, D., & Co., Liverpool .. .. .               | 58  | 0  | 0  |
| Jones, E., Aberystwith .. .. .                    | 23  | 0  | 0  |
| Jones, O., Liverpool .. .. .                      | 25  | 0  | 0  |
| Kynoch (Limited), Birmingham .. .. .              | 40  | 0  | 0  |
| Lazenby & Sons, London .. .. .                    | 15  | 0  | 0  |
| Lipton (Limited), London .. .. .                  | 16  | 0  | 0  |
| Mackie & Gladstone, Liverpool .. .. .             | 55  | 0  | 0  |
| Pattisons, Leth .. .. .                           | 79  | 0  | 0  |
| Pickson & Inlach, Liverpool .. .. .               | 380 | 0  | 0  |
| Pinto, De Sola, London .. .. .                    | 23  | 0  | 0  |
| Pratt & Co., London .. .. .                       | 39  | 0  | 0  |
| Pryce & Jones, Carnarvon .. .. .                  | 12  | 0  | 0  |
| Summers, R., & Co., Liverpool .. .. .             | 12  | 0  | 0  |
| Williamson, —, Ripon .. .. .                      | 13  | 0  | 0  |
| Wincarnis Company, Norwich .. .. .                | 16  | 0  | 0  |
| Wyleys & Co., Coventry .. .. .                    | 43  | 0  | 0  |
| Yeung & Co., Liverpool .. .. .                    | 10  | 0  | 0  |
| Bankers' claims .. .. .                           | 100 | 0  | 0  |

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## Editorial Comments.

### Medical Education.

ONE of the most difficult problems which the General Medical Council has created is the proposal to raise the standard of the examination in general education. The opinion of the Council is that the standard should be raised, and, as a preliminary step towards this end, certain examinations have been removed from the list of recognitions,



while a committee was appointed to arrange the details for final expurgation of the list. This committee took the precaution to address scholastic bodies, school headmasters, examination boards, and the university and qualifying bodies, asking what would be the effect of raising the standard from the "Junior" to the "Senior" class, and when the change, if agreed upon, should be made. The replies were so varied that the committee reported to the Council on Monday that it would require more time for consideration and the employment of paid experts to assist in finding a way out. We may say that the majority of the correspondents agree, almost airily, that the standard of the examination should be raised, but the minority, who do not agree or assent with reservations, give excellent reasons for their belief, and we presume that it is this minority who have stopped the headlong rush to the higher grade.

The first, and perhaps most notable, outcome of the inquiry is that medical students may be divided into two classes one composed of brilliant and highly-educated young men (we shall assume that the masculine includes the feminine) to whom the raising of an examination standard is really immaterial, for, given time, they will reach it. The registrar of the London University, writing in regard to the Matriculation examination, says, "It is found that if notice enough be given, students adapt themselves to the standard, beyond which, however, they decline to advance in the least." The London Matriculation is typical of the higher examinations, and this observation may be taken to apply generally. The second class of medical students are those who take the lower or Junior examinations, either because they cannot pass the higher, or have failed on trial to pass. The headmaster of Dulwich College (a good middle-class school) reckons them as a third, and he says that "the boys who take the lower would probably fail always at the higher examination, not necessarily because they are of lower literary power, or likely to make less able medical men, but because in this examination so many subjects are required, each requiring a slightly different turn of mind." In the same class are included students who, two or three years after leaving school, decide to enter the medical profession. The College of Preceptors says that, as a class, these students are unable to do more than pass the lower-grade examination. The College, like those who decidedly object to raising the standard, does not lack sympathy with the Council's object, and, also like some of the objectors, takes the Council's own records to show that during the past twenty years the percentage of Senior examination students has increased from 22 to 51, while the Juniors have decreased correspondingly. The raising of the standard will therefore affect half of the students who enter medicine—say, 800 a year. We shall see later the proportion of the 800 who would be deterred altogether from entering medicine if the preliminary standard were raised.

Another important finding of the inquiry refers to the age of the students. English authorities are practically agreed that the raising of the standard will compel students to remain at school until their eighteenth year, for the higher examinations are adjusted to fit those of that age and degree of training. In one sense this would not be a disadvantage, for the Aberdeen University complains that since the five years' curriculum was instituted

"students begin medical study at too early an age. Any sharp boy of fifteen can gain the Lower Certificate of the Scotch Education Department, and the professors of the scientific subjects taken at the early part of the course complain that they have in their classes too many quite young lads with ill-trained, unfilled minds, unable to take in scientific ideas and to respond to the teaching they receive. In former times many students of their kind would go for a year or two to the Arts classes in the Univer-

sity before beginning medical study; such a thing is almost unknown now. Many of the medical students are mere boys, and boys are not fit recipients of medical education. The Council should allow no student to go on the Medical Register till he is past seventeen years of age. The University Board believe that such a provision would have a more salutary effect in raising the qualifications of medical students than any sudden raising of the standard of examination."

This question of age must, we fancy, be considered along with the raising of the standard, and in that direction the committee is likely to see its way out of the difficulty.

It is apparent from the foregoing that the immediate effect of raising the standard would be to absolutely exclude a large number of students. Upon this point the Victoria and Scotch universities, the Irish authorities, and the College of Preceptors, who together can speak from experience of more than three-fourths of the medical students of the country are unanimous. The College estimates that at least 200 men per year would be kept out of the medical profession. The Dean of the Medical Faculty of the Liverpool University College points out that the lower-grade men "have been the making of the provincial medical schools," and others agree. The Scotch University authorities say that the increased stringency of the Matriculation examinations there has thinned the medical schools greatly, and they would not object to the standard being raised all round, because they would get more students, but they are clearly of opinion that a much higher standard all round will thin the ranks of the medical profession, and the public will suffer in consequence. It thus appears that if the Council were to carry out its original intention of raising the examination to the standard of the London Matriculation or the Senior Local examinations (1) there would be excluded from the medical profession a large proportion, probably the majority, of those who take a medical diploma and become respectable general medical practitioners, also those whose parents cannot afford to maintain and educate them continuously up to their twenty-fifth year, and those who leave school and get two or three years' business experience before beginning medical studies—young druggists for example; (2) medical schools would suffer, and some would have to shut up; and (3) the ranks of the medical profession would gradually be thinned by the extinction of those who at present attend upon the working classes. The last is not an unmixed disadvantage, but it is a serious public question, and the General Medical Council will be well advised to put public interests in this matter first. We may add that on Wednesday the Council adopted a motion requiring that schools in which the subjects of the first Professional examination (chemistry and biology) are taught must be approved by the Council. This is significant, and a practical admission that the regulation passed a few years ago permitting chemistry and biology to be taken in grammar schools and South Kensington classes is a mistake. The motion was bitterly opposed by representatives of the London colleges, but the Council supported its committee and carried a decidedly useful reform.

## Unregistered Assistants to Dentists.

WE have frequently expressed the opinion that the General Medical Council have, as a rule, exercised the important penal powers committed to them with due regard to justice and with a full sense of the responsibility involved. We have, however, pointed out on more than one occasion that the introduction of the "direct representative" element into the Council constitutes a danger by the tendency it encourages of sacrificing strict legality to professional prejudices, and this risk needs to be watched with the most scrupulous care.

Among the cases which have been heard at this session of the General Medical Council two have been brought before the Council under the Dentists Act. One was that of a chemist and druggist and dentist, who, it was alleged, had issued documents which might be regarded as medical certificates. We have no desire to defend any such practice, and, as a matter of fact, nothing came of the charge, because the Council were content to accept the assurance of the accused that he would not offend in like manner again. At the same time, it is obvious that in this case there is a considerable danger of a prejudiced view being substituted for anything like legal proof. The defendant denied that he had given a medical certificate, and, at any rate, there does not seem to have been any formal evidence of his having broken any law. He probably had done some counter-prescribing, and we are not sure if that was not his principal offence. There are members of the General Medical Council who would gladly regard counter-prescribing as "infamous conduct," and the danger is that the Council should by such cases as these get a little nearer endorsing such views.

The allegation in the case of Mr. Kershaw seems to us less justifiable than the one just referred to. Mr. Kershaw is a registered dentist who employs an unregistered assistant. For this, and, as far as we can understand, for this only, he has been haled before the Council and admonished by the President. His case has been adjourned, and unless he dismisses this assistant he may be adjudged guilty of "infamous conduct" and have his name removed from the Dentists Register, when his case comes up again in November next. This is a very serious matter, and is going too far. Unless it can be proved that Mr. Kershaw has represented his unregistered assistant to be a legally-qualified dentist—and we do not find that this is even alleged—we do not see what offence he has committed. Neither the Dentists Act nor any other statute has in the most remote degree suggested that dental operations may only be performed by registered persons. There are plenty of people in the profession who would gladly support such an enactment and make the practice of dentistry by unregistered persons a legal offence; but the Legislature has so far definitely refused to oblige them, and it is not the business of the General Medical Council to rectify the law or to anticipate not yet existent conditions, whatever the personal opinions of its members or of its constituents may be.

## Urine-analysis for Chemists.

THE *Lancet* does not like the little book which we recently published as an introduction to this subject for chemists and druggists who have not done anything in that line before. Our contemporary's chief objection to the book is that it does not give certain tests (e.g., Kjeldahl's method for the estimation of nitrogen) which are familiar to experts in the subject. But, says the *Lancet*, "we do not agree that the pharmacist is the person to undertake analysis of urine. It is clearly beyond his province." Which antediluvian view of pharmaceutical affairs clearly indicates that our contemporary is not aware that a considerable proportion of the most skilled consultants of the day appeal to pharmacists when they are in urine-analysis difficulties, and many physicians get the whole of their analyses done by pharmacists. The view of the book which the *Pharmaceutical Era* takes is embodied in the following paragraph:—

The preface to this work is quite brief, and states that it is "written by a pharmacist who has had nearly a quarter of a century's daily experience in the practical application of the methods described herein." This certainly predisposes one to regard with favourable anticipation what is to follow; there is hope

that theory and severe technical terms will be reduced to shop-talk and shop-practice. The student will not be disappointed in this respect, as the details of the examination of suspected specimens of urine are taken up in their logical order, beginning with the proper memoranda to be made upon the receipt of the specimen, followed by observations of physical characteristics, variations in solids, and detection of various abnormal constituents. A chapter is devoted to quantitative analysis, polariscopic and spectroscopic examination, and a list is given of test-reagents and solutions and apparatus. The pharmacist who realises that work in urine-analysis is a proper and profitable addition to his duties will appreciate and find value in this work by an experienced member of his profession.

The *Montreal Pharmaceutical Journal* also reviews "Practical Methods" favourably, and is quite of opinion that urine-analysis is a subject which the pharmacist should take up. The *Journal* says:—

The work would be a most useful counter-companion for anyone desirous of taking up urinalysis, a side-line thoroughly compatible with scientific pharmacy. That urine-testing to-day is not more in the hands of pharmacists here (Canada) than it is is somewhat surprising. Various attempts have been made to secure this work, but these have been failures even in the large cities. It seems that doctors either limit themselves to albumen and sugar, which they can manage, or else get reports from a friend connected with a hospital or dispensary, without charge. Nevertheless, let every pharmacist who has any taste for the scientific side of his profession make himself thoroughly competent to discuss these things with his medical friends and patrons, by mastering the contents of the book here reviewed, and then going on to more advanced treatises, if need there be.

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## OUR REPRESENTATIVES AND THE HOUSE OF LORDS.

The Council of the Pharmaceutical Society can hardly be blamed for not reversing their policy of masterly inactivity in regard to the Lord Chancellor's proposals in view of its endorsement by the members of the Society at the last election. To the ordinary observer it seems amazing that no official opposition should be offered to these proposals, so vitally affecting the interests of chemists, by the Council of the Society in the House of Lords. It is in the House of Lords, if at all, that the legal aspect of the case can be best discussed, and it is there where the most unbiassed consideration of the chemists' case might be secured. What is more astonishing still is that not only no sort of reason for this apathy should be given, but that this contemptuous treatment of the members should be accepted by them, not only without resentment, but with actual approval. We read, for instance, in the report of the Council's proceedings this week that certain chemists of Bradford, Derby, Dewsbury (!) and Edinburgh have passed resolutions expressing their confidence in the policy of the Council in this matter, though it is quite certain that they could not know what that policy would be, as it is almost certain that the members of the Council do not know themselves. As far as we can tell from the voting at the Council meeting, the majority in favour of doing nothing at present is as twenty to one. Mr. Glyn-Jones undoubtedly voiced a strong feeling prevailing in the country when he asked for a reconsideration of the waiting policy. But no one dared to second his first revolutionary protest.

## PRESCRIBING AND DISPENSING.

The correspondence in regard to the separation of prescribing from dispensing still occupies space in the *British Medical Journal*. Dr. Reginald Farrar, of Stamford, in reply to certain correspondents, goes into some detail in support of his contention that "the giving of prescriptions as against dispensing by medical practitioners is applicable to practice among the poor, and even to contract practice." He himself holds three contracts—one under the Poor-law, one with the local Post Office, and one as surgeon to an



almshouse. He contracts with a local chemist to provide all medicines in connection with these offices for a fixed annual sum, which amounts approximately to one-third of the gross value of the appointments. The Post Office allows 8s. per head per annum. Out of this, he says, "I can afford to allow 3s. for the druggist, and we are both satisfied." The principle, perhaps, could not be applied to club-practice at 4s. per head per annum, because he does not consider that that rate affords a living wage. He points out that if prescribing-physicians became general chemists could afford to lower their charges for dispensing, and that, indeed, competition would compel them to do so. Dr. Henry W. Williams, a retired physician, also writes strongly supporting Dr. Farrar's arguments. It is the sale of drugs, he contends, that keeps the medical man at the bottom of the social tree. So long as practitioners supply medicines the public will credit them with commercial and not professional status.

#### THE UNQUALIFIED DISPENSER.

We understand that the committee appointed by the General Medical Council on the subject of the unqualified dispenser find the subject too important to be dealt with during this session of the Council. The committee are, in fact, in rather a tight place. They have to advise a reply of some sort to the Privy Council, and the General Medical Council can hardly be recommended, especially in view of their previous action, to formally sanction the distribution of medicines and poisons to the public through the medium of the groom or the housemaid unchecked. A mere *tu quoque* argument against chemists would be neither dignified, nor logical, and yet the Council, and especially the "direct representation" members of it, can never altogether divest themselves of the fear of the General Practitioner. Possibly it is hoped that in the course of six months something may turn up, or the agitation may have quieted down. Anyway, the delay will give them time to devise a formula which may meet the case. We may mention that when the committee was appointed, Mr. Brudenell Carter, who represents the Society of Apothecaries on the Council, was proposed on it. He then declined, but on Wednesday by direct motion his name was added. This is somewhat significant.

#### SYMPATHY.

The *Pharmaceutische Zeitung* condoles with us in regard to the way in which we are vilified for expressing our opinions about pharmaceutical affairs, and adds:—"THE CHEMIST AND DRUGGIST appears to be much abused, but it should come for once to continental States and hear the terms in which every independent expression of opinion by an independent professional journal is opposed."

#### DENTISTS' AMBITIONS.

In a temperate address delivered to the Midland Counties Branch of the British Dental Association, Mr. G. G. Campion rather deprecated the tendency which obtains in the more advanced section of the dental profession to seek distinction by qualifying in medicine and surgery. Mr. Campion pointed out that it would be a great deal better if dentists who wish distinction should have an opportunity of doing so in their own profession as subjects, just as medical men, who wish a higher qualification than the one on which they have registered, may proceed to the Fellowship of either of the Royal Colleges, or obtain a University degree. There is sound sense in this advice of Mr. Campion's, and he gives point to it by suggesting that the Victoria University should be the first to encourage post-graduate dental study, offering a degree to those who have obtained the L.D.S.

#### THE B.P. ADDENDUM.

In the *South African Medical Journal* for April and May are letters which show that medical men and pharma-

cists at the Cape are beginning to take an interest in the Indian and Colonial Addendum to the British Pharmacopœia. In the May number Mr. Ernest L. Ralling, a Cape Town chemist, explains, on the basis of Dr. John Attfield's draft, what is wanted, and states what South African drugs might be recognised alternatively or for their own sakes. Amongst those recommended are *Monsonia ovata*, the remedy for dysentery which Professor MacOwan has written about; Roode Wortel, the root of *Bulbine alvoides* and *B. latifolia*, much used for rheumatic affections, and of which a 1-in-10 tincture is recommended. *Blcphuris capensis* is spoken of as a remedy for anthrax, and Mr. Ralling suggests that well-picked Cape gum might be permitted to be used in place of gum acacia, and Cape aloes in place of the Socotrine and Curaçao varieties. The objection to Cape aloes, he says, is that it is at present prepared in the most primitive style, generally by Kaffirs who do not regulate the temperature of evaporation, and allow stones and other impurities to get into it. The editor of the *Journal* commends consideration of South African remedies, but wisely adds that complete investigation of them is desirable.

#### "HUSA."

This is the name for a new cure for the opium habit. It has been discovered by W. W. Winthrop, A.M., M.D., Forth Worth, Texas. This gentleman says it is a new Florida plant, and an unrivalled antidote for snake-poisoning as well as a cure for the opium habit. Unfortunately for Dr. Winthrop, Professor J. U. Lloyd has got on his track, and he, having failed to find out any plant in Nature according with the description of "Husa," got a medical man to obtain from Dr. Winthrop \$10 worth of the medicine called "Husa." \$10 worth was a month's supply for a morphiomaniac, and consisted of ten 3-oz. phials of a reddish-brown liquid, which smelt strongly of burnt sugar. The phials were numbered 1 to 10, and Professor Lloyd found that the contents were a solution of morphine sulphate in a mixture of alcohol 12 per cent., glycerin 10 per cent., salicylic acid 16 per cent., and water to make up the 100. The morphine in No. 1 came out at 2.19 per cent., and the quantity in each of the other phials decreased gradually until No. 10 contained 1.33 per cent. "Husa" has not yet come to Great Britain, but it may yet be offered as a panacea, and we have thought that this note should be printed to give the trade due warning. Professor Lloyd's article on the subject is summarised in the May number of the *Pharmaceutical Review*.

#### ABOUT A LETTER.

The *Financial Times* severely criticises the flotation of the Sanatorium (Limited) with a capital of 40,000*l*. According to the prospectus the company have secured the services of Dr. F. Rufenacht Walters, F.R.C.S., 60 Welbeck Street, W., as resident physician and medical director, and the doctor, in a letter which accompanies the prospectus, says:—"The company is in very good business hands. . . . I may perhaps venture to remind you that I have not only had long experience in the ordinary treatment of consumptives at the City Dispensary and the Hampstead Consumption Hospital, but have also made a special study of the methods of sanatorium treatment, which led to my being chosen to represent the staff on the sub-committee for the introduction of open-air treatment at the above hospital." The Medical Directory gives Dr. Walters's qualifications as M.D. (Lond.), M.B. (Honours), B.S. (Gold Medallist), M.R.C.P. (Lond.), F.R.C.S. Eng., L.S.A. He is a Fellow and member of a large number of medical societies and has published papers on phthisis and related subjects; but it is curious that the letter from which the *Financial Times* quotes should have been circulated, considering the strictness of the Royal Colleges regarding such matters.

## "The Waverers"—a New Opera.

A MUSICAL correspondent, who purports to be *au fait* with the doings of the Covent Garden Operatic Syndicate, sends us the following particulars of a new opera with regard to which he professes to have exclusive information:—

I have it on good authority (he writes) that Mr. Maurice Gran and the Syndicate who are responsible for the Covent Garden operatic season have been approached with, and are likely to accept, a new work which is certain to create a furore in the operatic and pharmaceutical worlds. The libretto, which is the production of a talented but hitherto unknown Lancashire rhymmer, Mr. Proser Aulde, is replete with indefinite poetic fervour; while the music, which is of a high order, is the work of a brilliant but equally unrecognised composer, Signor Earlo Gyffardi. The piece, which, I have reason to believe, will be produced next season either at Covent Garden or the Bloomsbury Theatre of Anxieties, will be the means of bringing more prominently before the public several singers who have up to the present been known to but few in the operatic world. Amongst the principals engaged are Mr. Oxford Mountains, a baritone of much sweetness and strength, who for the past three years has been playing leads in various successful (and unsuccessful) musical comedies in London and the provinces; Mr. Mikado Kartou, a robust Japanese basso of much power and experience; Mr. Glones Gwynne, Mr. Halls Berri, and a host of lesser lights who may be relied upon to provide a faithful and enthusiastic *ensemble*. The chorus will be recruited mainly from Lancashire and Westminster, and Signor Gyffardi, who, of course, will conduct, has requisitioned his own orchestra, which, I may add, consists almost entirely of brass and wind.

I had the rare privilege (continues our mysterious correspondent) of witnessing a private performance of this remarkable work the other evening. It is entitled *The Waverers*, and I will endeavour to give some idea of what it is likely to be. The overture is a marvellous piece of scoring, quite in the heaviest Wagneresque style. It recalls memories of the "Ride of the Valkyries," with additional reminiscences of work in full swing in a shipbuilding-yard. The opening measure, which supplies the *leit-motif* throughout the piece, is an exquisite, wailful, yearning number soulfully sung by the Lancashire chorus. It indicates the hnngr of submerged souls for something they know not what:—

What seek we now, my brethren faithful?  
What is the goal of all our needs?  
We yearn and talk and bluster scathful;  
Of youth's decay we sow the seeds;  
By day and night we're vainly seeking  
We know not what—we know not what.

We seek th' unknown with visage stony,  
Intrude our griefs on all mankind,  
Hobnob with Lords and M.P.'s tony  
Till they rebel and speak their mind.  
Alas! my brothers scant of fearing,  
We want the Earth—we want the Earth.

This haunting measure crops up at intervals throughout the piece, and is used with much effect in the grand *finale*, which is consummated with a long-drawn and bewildering "What?" The solos are all more or less worth hearing. Mr. Mountains (who, by the way, will only play second lead, the principal tenor not yet being decided upon) has a few strong numbers allotted to him. He acquits himself fairly well, albeit, he has contracted a tendency to linger on the theme, which rest, a greater experience, and a closer familiarity with the complicated music may in a measure remove. At present, however, he sings sweetly, but with a wearied air, as if the greatness of the work oppressed him. We hope that, a suitable lead being provided, Mr. Mountains may gain courage, throw off his lethargy and act with more spirit and confidence. Of course it is only fair to add that few of the singers seemed to be well up in their parts, and in spite of the efforts of the conductor, who has a vigorous and assured personality, the performance lagged considerably, and on

more than one occasion the muddle became so complicated that the entire scene had to be stopped and a new start made. Mr. Mountains was at his best in a recitative and aria in the last act. Here he who has been king for many years has abdicated in favour of another (the leading error), and his full rich voice declaimed full well the final line, "Out of it all, thank heaven!" The recitative begins:—

"The golden glimmer of a distant shore I see, Where peace is dwelling in my pharmacy. No more in turgid strife my days I'll spend, Trying in vain Their wisdom to defend. No longer shall I wake in dread to see The keen cold print of jaundiced C & D."

I can only remember the last quatrain of the aria:—

Out of the yoke at which scoffers gibe;  
No heart in the work to lighten,  
Out of the "honour" which galls the kibe,  
Out of it all, thank heaven!

The concluding line was rendered with a pious fervour which augurs well for its public reception. Another solo particularly worthy of mention was the "For fourteen long years I ruled over them all" air sung with much spirit and lung-power by Mr. Kartou. The sixteenth stanza was delivered with particular gusto, and the air recalled faint memories of the old-world ballads ascribed to the descendants of Brian Boru:—

Stoutly I stood and would never be spat upon,  
Bully and bluster I sat me down flat upon,  
And never a one I could not put the hat upon—  
Wasn't I truly the king of them all?

Mr. Gwynne also sings well, but he received adequate support neither from the band nor the chorus. The chorus was very weak in the concerted numbers following his arias, and the orchestra on several occasions was distinctly and abnormally out of tune. For this reason also his principal aria, beginning—

Like lambkin into Pata's fold  
Dinah Ford comes bleating

—was completely spoiled by the irresponsible and overpowering resonance of the basses under the direction of Mr. Kartou. This is to be regretted, as Mr. Gwynne is a promising young singer, who has quickly come to the front in recent years. A very catchy number given by this gentleman, telling of

A certain unqualified Margery  
Who dispensed in a medical surgery,

was more successful, and is likely to become a popular air. Mr. Halls Berri, who is a gentleman of considerable talent and wide experience, has several strong scenes in the opera, in all of which he acquits himself guardedly and with discretion. Mr. Berri is the heavy villain of the play. In the first act he wheedles the unsuspecting hero into a false friendship, which provides a delightful pastoral duet, in which both he and Mr. Mountains sing and act with rare taste, picturesqueness, and feeling. As the plot works out we find that the friendship of the villain was only assumed in order that, as usual, he might the more heavily jump on the chest of the hero. The villain has at his beck and call an obedient band of Westminster brigands, who upset the plans of the hero and his friends, as represented by Mr. Mountains, the *tenore primo* not yet appointed, Mr. Kartou, and others. The solo of Mr. Berri, with chorus of brigands, "We'll lead them a jolly fine dance," was one of the features of the performance, and the final vanquishment by the unknown tenor in the final scene (this, by the way, is not quite finished yet) will doubtless be the crowning point (when it is successfully ended) of a musical production the like of which has not been seen in this or in any other country for centuries. The entire opera will be produced under the personal superintendence of that celebrated *impresario* Herr Paulus Schreiber, who will also be responsible for the handbills, programmes, and general spectacular effects.

Since sending you the foregoing I have been informed that the part of the King will be undertaken by M. Echstra Farmacopija, the incomparable Hungarian tenor. M. Farmacopija has just returned from a tour of the world with his own company, and his superb rendition of "In far Barados aloe bloometh," from the popular West Indian opera, "Tous les Mois," will be fresh in the minds of many of your readers.



## The General Medical Council.

PENAL cases were considered by the Council on Thursday, Friday, and Saturday last. Some of these were of considerable interest.

### A CASE OF IMPERSONATION.

The first was described by Dr. Bateman, who conducted it on behalf of the Medical Defence Union, as absolutely unique. Mr. Samuel Bingham Shekleton, of Compton Avenue, Barking Road, Canning Town, L.R.C.S. Ireland, was charged with having abetted and assisted an unqualified person, named Julian Averfield Rowland, to procure his admission to the Medical Register under the name and with some of the registrable qualifications of one Edward Joseph Nugent, by false and fraudulent representations, and with aiding him to assume the position of and carry on practice as a duly-qualified practitioner.

The case arose out of one which was before the Criminal Courts a few months ago. Mr. Nugent, formerly of Woolwich and registered with that address, practised at Barking Road, but in 1895 left England for New South Wales, and his name was removed in ordinary course from the Medical Register under section 14 of the Act, and is now on the register of the colony. In the same year the suspicions of the Medical Defence Union were aroused by hearing that a man calling himself Nugent was practising in Canning Town, using certain Irish qualifications. As the name did not appear on the register Dr. Bateman demanded an explanation, and after an interview with him became convinced that the man was an impostor of the name of Rowland. Dr. Bateman afterwards received from him a letter to the effect that he was duly registered, he having succeeded in procuring the restoration of Nugent's name to the register. Warning was given to the Coroners of the district, but "the doctor" kept clear of the Coroners' courts until December last, when a woman named Smith died, in consequence, it was alleged, of gross neglect on "Nugent's" part. In the course of the investigation certain questions were asked as to his identity, which he refused to answer, and the real Nugent's wife and his former landlord swore this was not the same man. Mrs. Nugent's evidence was a rather odd feature of the case, she affirming that when her husband went to Sydney in 1895, he left behind him two diplomas, and that Rowland had paid her 3s. 6d. a week, apparently for the loan of these. Eventually the impersonator was sentenced at the Old Bailey to three years' for manslaughter and three years' for perjury, the sentences to run concurrently. So much for Rowland.

The fact had now to be considered that Nugent's name was restored to the register on the certificate of Mr. Shekleton, who certified that this "Edward Joseph Nugent" was the same person whose name had appeared on the register with the address at Woolwich; who carried on the practice in Barking Road between the time of Dr. Bateman's visit and the reappearance of Nugent's name on the register; and who admittedly lived for a time in the same house and contemplated partnership with Rowland, *alias* Nugent.

During all this hearing of the case and reading of the depositions Mr. Shekleton, summoned for 2 o'clock, did not put in an appearance, and the Council were already considering their verdict *in camera* when, at 3, he arrived. His apologies for not attending earlier scarcely indicated comprehension of the heinousness of the offence; and when allowed, as an act of grace, to still make an explanation in answer to the charge, it did not appear that he had any explanation to give, beyond an assertion that he never knew Rowland under any other name than Nugent. "Have you no other explanation—nothing else to say, Mr. Shekleton?" asked the President, with impressive emphasis. "No, sir, nothing particular," replied Mr. Shekleton. And the Council could only view him in silence for the moment, nonplussed by this remarkable reply. Being questioned, however, Mr. Shekleton stated that he first knew Rowland in Stonehouse (Glos.), twenty years ago, where he was himself a medical assistant; Rowland was also an assistant, but he did not know to what doctor, nor did he know what name he then had. He only knew him as "the doctor." Asked when he first knew the man under the name of Nugent, he avowed

this to have been in 1890 or the beginning of 1891, maintaining, in face of the amazement of the Council, that at this time (four years before the actual Nugent left England) Rowland was passing under the same name, living in the same street, and practising the same profession under Nugent's diplomas. Having admitted that he never knew Rowland at Woolwich, or in connection with Woolwich, or as having practised at Woolwich, Mr. Shekleton was next asked how he came to certify him to be the same man as the Nugent on the register with a Woolwich address. Mr. Shekleton said flatly that he did not certify this, but, on the document being placed in his hands, identified his signature. Being asked whether it was a hasty act of good nature on his part or the result of due consideration, Mr. Shekleton was understood to give an affirmative answer to both queries, and further admitted that the body of the certificate as well as the signature was his handwriting. He had not the slightest suspicion whatever in the matter, and that was the real truth.



"Is that your signature, Mr. SHEKLETON?"

The defendant was next asked why he did not appear at the Law Courts at the time of Rowland's trial for perjury to explain his part in the affair and support the certificate of identification. He said he knew nothing at all about the case until he read it in the *Evening News*, when he spoke about it to Mrs. Nugent, telling her, "Your husband has been proved to be another man," to which she replied, "I may as well tell you that he isn't the man at all." This lucid statement necessitated an inquiry as to whom he meant by "Mrs. Nugent," presumably Mrs. Rowland. "You never knew the real Mrs. Nugent?" "Oh, no, not the real Mrs. Nugent. Of course *they* could not be man and wife," returned Mr. Shekleton, to the considerable entertainment of the gallery.

The Council having considered the case, pronounced Mr. Shekleton guilty of "infamous conduct in a professional respect," and directed his name to be erased from the register.

Two resolutions bearing on the charge followed. On the motion of Dr. Church, seconded by Mr. Horsley, it was agreed that the result of the inquiry and the papers bearing on it be communicated to the proper authorities in New South Wales, drawing their attention to the statement that Mr. Nugent's name had been placed on the colonial register and to the fact that it had been erased from that of the United Kingdom. Sir W. Thompson moved, and Mr. Horsley seconded, a motion approving of the action of the Executive Committee in removing from the register the name of Edward Joseph Nugent, L.R.C.S.I. and L.K.Q.C.P.I. It was pointed out, however, that they must not make any charge against Mr. Nugent, even by implication, until he had been tried, that it was not necessary for the Council to go out of its way to pat its own back, and that the name had never been really restored to the register, though it appeared to have been. Dr. McVail wanted the name to remain on the register and Nugent to be disposed of next session, and, being told that it was already off, said it "had much better have stayed on." (Laughter.) The motion being rejected, Mr. Horsley wanted to know whether this meant that the Council disapproved of the action of the Executive Committee; but Mr. Horsley perhaps did not expect an answer to this smart inquiry.

### THE CORONER AVENGED.

Next came Mr. James Jerome McKay, who was charged with another unique offence. It was alleged against him that at an inquest held in December last by Mr. Braxton Hicks he swore to having made a *post mortem* examination of the body of a child, and gave detailed evidence as to the state of the various organs, including the brain, disease of which he



credited with being the cause of death. Something having aroused the Coroner's suspicions, he ordered the police surgeon to make a further examination of the body, with the result that it was discovered that the skull-cap had been partially sawn through, but not removed, so that no adequate examination of the brain could have been made. Further, that a 4-inch incision had been made from the ribs downwards in the median line of the abdomen, but that the lining membrane of the abdomen had not been opened, so that it was impossible for a proper examination of the viscera to have been made, while the thorax had not been opened at all. The lungs, stated by Mr. McKay to be healthy, were solid from pneumonia, and the brain was healthy. Yet Mr. McKay had given in evidence that the heart was perfectly healthy, and that the lungs were sound. When confronted with the fact that the thorax had not been opened, he said he had "felt" the heart and lungs, and while not disputing the accuracy of the police surgeon's statements, he urged that as he had made up his mind from clinical appearances that the brain was the cause of death, it was unnecessary for him to make a careful examination of the other organs. Unfortunately for him, he had sworn to having done this very thing, and as at the adjourned inquest he adhered to his original statements, even after being warned of the consequences, the Coroner committed him on a charge of perjury.

He was brought before Mr. Plowden, the Police Magistrate, on the charge, but, for reasons best known to himself, this Magistrate flippantly dismissed the case on the ground that it was merely a difference of opinion between two medical men. At the same time he made some observations of an offensive character in regard to Mr. Braxton Hicks. The Coroner bided his time, however, until this opportunity occurred of bringing the case before a professional tribunal.

Mr. McKay, who seemed somewhat dazed, had practically no defence to offer beyond the fact that his case had been dismissed by Mr. Plowden, to whom, indeed, he had every



"I am in your hands, gentlemen."—Mr. J. J. McKay.

reason to be grateful. He did not gainsay any of the evidence of his perjury, but complained that he had not been invited to assist at the second *post-mortem*—a regrettable oversight, by the way.

The Council took a very grave view of the case—a view which most people will endorse. They held, indeed, that, apart from the fact that he had technically committed perjury, his neglect to make the examination confided to him, and the swearing to statements which were at variance with fact, constituted "infamous conduct," and they accordingly ordered his name to be removed from the register.

#### A CHARGE OF "COVERING."

A case of interest to medical aid and similar associations for providing the poor with medical attendance was that of Dr. Stewart, of Denton, near Manchester, who was charged with "covering" one Burgess, the dispenser to a local provident dispensary of which Dr. Stewart was, or claimed to be, merely the paid medical officer. The question before the Council was whether he could be held responsible for the doings of this Burgess supposing the latter to have acted as if he were a duly-qualified and registered practitioner. Dr. Stewart, who appeared in person, accompanied by his counsel, is a cut above the ordinary run of "covering"

practitioner, and must be a very busy man. He visits, or says he visits, 28,000 patients a year at their homes, besides attending a couple of hundred confinements and performing about as many operations. He denied that Burgess visited or treated patients—or at least, if such were the case, he added, it was unknown to him. He disclaimed all responsibility for the working of the dispensary. He was merely the paid medical officer, and had no authority over Burgess, who was appointed by the "trustees"—a body of labouring men. Mr. Hyde, who represented the complainants (the Medical Society of Ashton-under-Lyne), represented the improbability of Dr. Stewart's attending this enormous number of patients unaided, and pointed out that it was difficult to believe that Burgess did not attend to patients when the medical officer was attending a confinement or was absent for any other reason. He elicited from Dr. Stewart some interesting information concerning the way he performed his surgical operations. Dr. Stewart himself both gives chloroform and operates—never a commendable proceeding, but well-nigh incredible when the operation is such a formidable one as that for the relief of umbilical hernia or the removal of a cancerous breast—two operations about which he was particularly close-questioned. Why, indeed, should he do so? Burgess was generally present, ostensibly from mere curiosity, and it is not unprofessional, however undesirable the practice may be, for an unqualified assistant to give chloroform. Yet Dr. Stewart preferred to assure the Council that he always gave the chloroform himself, in the face of categorical evidence to the contrary. Dr. Stewart was a good witness, and parried the questions with which he was plied by curious members of Council with considerable adroitness, and was never "caught out." Against him was the extreme improbability of his being ignorant of the conduct of the dispenser, considering the necessarily intimate nature of their relationship and the limited area covered by his practice. But there remained the question whether, admitting his knowledge thereof, he could legally be held responsible for the same? In other words, was he to be allowed to shelter himself behind the puppet trustees? After a protracted deliberation the Council arrived at the conclusion that he was cognisant of the dispenser's attitude towards patients, and that under these circumstances his own behaviour amounted to unprofessional conduct. In view, however, of the novelty of the circumstances the Council did not proceed to pass sentence, but adjourned the further consideration of the case until the next meeting in November, when, no doubt, if Dr. Stewart shows a contrite reforming spirit, he will be admonished and let off.



DR. STEWART. Visits 28,000 patients a year.

It is hardly necessary to point out that this decision cannot fail to have a far-reaching effect on the methods of running these so-called provident dispensaries. It is tantamount to saying that a registered practitioner who associates himself with an institution which is run on unprofessional lines thereby incurs the penalties provided for unprofessional conduct. In this instance the charge was limited to one of covering, but we judge from the tone of the debates that the Council would be prepared to regard association with an institution which touts for patients or members as equally unprofessional.

#### COVERING.

Unlike the cases of Dr. Stewart and Mr. Shekleton, that of Mr. Neville Holland was by no means unique. His name was well known to the Council, as this was not the first time he had been before them. In 1894 his name was erased from the register, but it was restored the following year on his promising to dissociate himself from unqualified persons. Unfortunately he had not kept that promise, hence his reappearance before the Council on Friday. Mr. Holland was found guilty, not only of associating himself with and of aiding and abetting an unqualified person of the name



of Blumenthal at a surgery in Tyers Street, London, but of attracting practice to the said surgery by such tempting offers advertised as a bottle of medicine for 4*l.*, advice for 1*s.*, and a professional visit to the patient at his own home for 3*s.* There was no defence, and as no one had any questions to ask, the Council soon arrived at the conclusion that Mr. Neville Holland's name must be erased from the register. The defendant, on receiving the intimation of the Council's decision, asked what was now his position as a medical man; could he attend cases; and could he accept a position open to him as assistant to a qualified medical man? The President, however, regretted that he could not advise him.



MR. N. HOLLAND.—“What is my position now?”

#### WARNINGS TO DENTISTS.

On Saturday afternoon the remaining penal business was disposed of: two dental cases, neither of which, however, reached a very deep depth of infamy, occupied the attention of the Council. Mr. Henry Rowton, a chemist who is also on the dental register (thus becoming subject to the jurisdiction of the Council), was found guilty at the November Session of adding to these duties by infringing on those of a medical man. He did not appear, but his solicitor had made an assurance on his behalf that he would not so offend again. The Dental Committee had advised that no further action be taken, but the Council had resolved to consider the case again at the present meeting. Neither Mr. Rowton nor the complainant (Mr. Price) was present. Mr. Brown protested that the case was a very serious one. Here was a man registered as a dentist who was carrying on business as a chemist, and who appeared to have attended patients, administered anaesthetics, and given a death-certificate. The Council, having considered the case *in camera*, took a lenient view, and passed the following resolution:—

That the Council, taking into account the undertaking of Mr. Rowton that he will never issue any document which can be considered of the nature of a medical certificate, or attend any patient as a medical practitioner, resolves to proceed no further in regard to the charge found proved against him.

With regard to the case of Mr. Clement Maguire Kershaw, the Dental Committee had ascertained that he was registered without a diploma seven years ago, that he had a dental surgery at Newtown, North Wales, and a branch practice at Llanidloes, and that for the last five years he had employed an unqualified assistant named Victor Neighbour, who had extracted teeth, seen patients on his own account, and on one occasion performed a dental operation on a patient under chloroform in Mr. Kershaw's absence. Mr. Kershaw's counsel (Mr. Germaine) represented effectively that the complaints had been instituted through the jealousy of a rival, who had admitted on cross-examination that he had brought the case before the Council because he could not induce Mr. Kershaw to buy his practice or go into partnership with him, and that he had, moreover, himself systematically employed an unqualified



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assistant to extract teeth and administer anaesthetics. Mr. Neighbour was known to all Mr. Kershaw's patients to be unqualified, but, though technically so, counsel urged that he was well qualified for the duties he undertook, having served with dental surgeons of repute and extracted teeth at the Stanley Hospital, Liverpool. On the single instance which was all that Mr. Kershaw's enemy could adduce wherein the assistant had performed a dental operation on a patient under chloroform in the absence of Mr. Kershaw, the patient's case was urgent, and as Mr. Kershaw was ill and there was no dentist within

a convenient distance, Mr. Neighbour extracted the teeth, pressure being put on him, a Dr. Snow administering the chloroform. When he told Mr. Kershaw what he had done the latter “blew him up.” A statutory declaration had been made by three medical men that on no occasion in which they had administered chloroform had Mr. Neighbour extracted teeth in the absence of Mr. Kershaw. With regard to the charges relative to extraction and filling, Mr. Germaine submitted that these operations were ordinarily done by unqualified persons, and that the profession had had no formal notification from the Council that this was held as an offence. The Council, after deliberation, adjourned the case till November, the President warning Mr. Kershaw as to the gravity of the case, and advising him to be able in November to satisfy them that he had not employed unqualified assistance.

#### MR. TICHBORNE LEADS A FORLORN HOPE.

The Council entered into a somewhat warm discussion on Monday afternoon on resuming consideration of the motion by Sir Dyce Duckworth, seconded by Mr. Bryant—

That the reports of the Examination Committee on the inspection of the examinations of the Apothecaries' Hall, Dublin, be received and entered in the minutes.

Mr. Tichborne raised an objection to the tone of the reports. The President pointed out that it was unusual at that stage, when a report was about to be entered in the minutes, to make objections. Did Mr. Tichborne want an amendment? Mr. Tichborne said he did, and proceeded to take exception, with some feeling, to the remarks of the committee in several places throughout the report, pointing out that the comments of the committee were at variance with the reports of their own visitors and inspectors, and that there were discrepancies between the remarks of the inspectors and the conclusions at which the committee had arrived. The inspectors had stated that “there was a general endeavour to maintain a fair standard of examination—it was not severe, but neither was it easy,” and that “the examinations were fair, the tests adequate.” With these remarks Dr. Church, their visitor, had expressed his entire agreement, and added his approval of the convenience of the arrangements at the Apothecaries' Hall, Dublin. The speaker did not wish to disparage other examinations, but he thought that of the Apothecaries compared favourably with other bodies. If the committee thought the standard adopted was not satisfactory, they should say so, and not make reflections which suggested either an animus on their part or something wrong with the school. For instance, the prefix constantly employed, the “solitary” candidate, the “only” candidate, was quite superfluous. How could they, in their position, get a large number of candidates? He was surprised they had so many. So long as the Apothecaries' Hall did its duty under the guidance of the Council the latter, instead of throwing a cloud on it, should protect it and render it every assistance. Again, the committee called attention to the fact that two rejected candidates had come up for re-examination in a solitary subject, thus getting through their examination piece-meal—a system which could not be too strongly deprecated. Why should these two men have a black mark recorded against them? All licensing bodies had men before them from time to time who had passed one or other of their examinations elsewhere. (Hear, hear.) Were they to be refused on that account?

Sir Dyce Duckworth and Mr. Horsley sharply defended the committee's report. Mr. Horsley was sure that the profession did not know that because the Apothecaries' Hall wished to hold an examination they (the profession) were taxed to the extent of 330*l.* a year. The authorities at Apothecaries' Hall apparently did not realise that it was carried on at a loss to themselves.

A good deal of feeling was excited, and Mr. Tichborne



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divided the Council three times with specific amendments, which were all defeated by large majorities.

#### DOCTORS AND BENEFIT SOCIETIES.

The attention of the Council was largely occupied during the afternoons of both Monday and Tuesday by the report of the Medical-aid Associations Committee, which brought forward the relationship existing between the medical profession and the great friendly societies on the one hand, and on the other hand the feeling entertained by the profession towards the advertising and canvassing methods adopted by various benefit associations. The committee was appointed in May, 1897, and the two years have been spent in inquiring into the causes of friction between medical-aid associations consisting of members of friendly societies and medical men, brought before them by several deputations of East Anglian practitioners. The matters in dispute resolved themselves very much into questions of remuneration, arising largely out of the recent inclusion in the membership of medical-aid associations of women and children, who hitherto have been generally excluded from the club-system, and out of an alleged practice of retaining in the membership of such associations persons whose means and social circumstances unfit them, without injustice to the profession, for receiving the benefits of medical attendance on such terms as are proper for ordinary members. The committee had suggested a conciliation board, consisting of representatives of the friendly societies and of the medical profession, to determine questions at



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issue. This recommendation was adopted by the Council. A second part of the report "dealt with those medical-aid associations in which insurance is the principal business, and medical attendance is thrown in merely as a bait." "It is alleged," the committee reported, "that wholesale canvassing and touting is practised by these Associations," and they thought the Council should express strong disapproval of such touting and advertising, and of any sanction of such methods by registered medical practitioners. In moving the adoption of this recommendation, Dr. Glover pointed out that medical men were sometimes coerced into co-operation with these Associations by threats that if they refused to act a rival practitioner would be imported into the place; and also that the agents canvassed among the patients of other medical men in the district, urging the advantages of combined assurance and sick aid.

Mr. Brown proposed that the resolution should declare that the Council would regard it as "unprofessional" to hold the appointment of medical officer to any such society whose agents systematically canvass for members from door to door. He meant the word "unprofessional," he said, to

have a significant meaning. It was on this subject that Dr. Pye-Smith made his maiden speech, showing himself a purist in the English language, whose presence on the Council ought to rejoice Mr. Brudenell Carter. He preferred Dr. Glover's motion to Mr. Brown's, because it expressed only a pious opinion on the subject. But he did not quite approve of this. In a resolution which was to be quoted as the expression of that Council, he asked that instead of the word "touting," which was scarcely English and did not express any definite meaning, "soliciting" should be used.



DR. PYE-SMITH.

Dr. Glover thought the word "touting" was very well known, very expressive, and much used in this connection; but, being, as he explained, a very accommodating sort of man, he accepted the words "systematically canvassing" proposed by the President.

Dr. McVail wanted to know whether the Council meant business. If this was only a "pious opinion," they had better not pass it. He was doubtful if it would be wise to act, but it would be very awkward if such a motion was put on the minutes, and then meeting after meeting went by with the thing still going on. Sir John Tuke, too, considered it was only a waste of time for the Council to merely discuss whether such-and-such a thing was naughty or good. Dr. Glover, however, ardently proclaimed the entirely practical character of his intentions, and the motion, as amended by Dr. Pye-Smith, was put, and hands were being counted, when Mr. Horsley's arm was observed to give it a very languid and dubious support. Mr. Horsley being questioned by the President as to whether he was voting or not, it appeared that he, too, was troubled about the treatment to which the Queen's English was subjected in the resolution. He wished to substitute "by which" for "in which." The President at once accepted the alteration, and the motion was agreed to.

#### FEARFUL FLUENCY.

On the Council resuming its sitting on the eighth day (Wednesday), Mr. Brudenell Carter had a suggestion to make in favour of despatch. They were all anxious to conclude, and they were all conscious that the last session had been a good deal prolonged owing to the abounding eloquence of two members, who during five or six days had made 133 speeches. He thought those who had this inclination to put their views before the Council should be limited to three speeches on each subject. In spite of Mr. Carter's suggestion, the Council did not make much headway on the programme that afternoon.

### Trade-Marks Applied for.

*Anyone who objects to the registration of a trade-mark must address the Comptroller-General, Patent Office, Chancery Lane, W.C., within a month of the date of publication.*

*When "no claim" is mentioned in the joined sub abstracts, this implies "no claim for the exclusive use of the word" in inverted commas.*

(From the "Trade Marks Journal," May 24, 1899.)

"JASMAI"; for perfumes. Société Anglo-Française des Parfums Perfectionnés (Limited), Winchester House, E.C. 221,895.

"GRANETO" (no claim for "Granite"); for perfumery and toilet-articles. A. Finlay, Belfast. 221,959.

(From the "Trade Marks Journal," May 31, 1899.)

"CARBOCIDE" (no claim for "Carbo"); for a chemical composition. L. H. Grundy, Blackpool. 221,890.

"ICHTHOFORM"; for goods in Classes 2 and 3. Ichthyol Gesellschaft, Hamburg. 222,252, 222,253.

"PANANODYNE"; for medical remedies. W. Vale, South Norwood. 219,192.

"SULCHO"; for medicines. E. Thomas, Rochdale. 221,310.

"ENTEROROSE"; for dietetical products in Class 3. Gesellschaft für Diätetische Produkte, Zurich. 221,954.

Circular label, bearing facsimile signature of the firm (the essential particular); for a medicine. Mandall & Co., Stockton-on-Tees. 222,062.

"VEGETALINE" for a milk-preservative. E. Copeland, Manchester. 216,009.

"VITOX"; for extracts of meat, &c. Thompson & Co., Tollington Park, N. 219,628.

Device of lemon and facsimile signature of the firm (the essential particulars); for an effervescent-powder. J. Sinclair & Son, Southwark, S.E. 220,807.

"LOZOD"; for goods in Class 42. H. J. Gardiner, Hackney, 220,926.



## Centenary of the Royal Institution.

THIS week the members of the Royal Institution, Albemarle Street, W., have been celebrating the centenary of its foundation. The proceedings commenced with a general monthly meeting of the Institution on Monday afternoon, the Duke of Northumberland, K.G., presiding, when several members were elected, donations to the fund for the promotion of experimental research at low temperatures acknowledged, and special thanks returned to Mr. Hugh Spottiswoode for his valuable gift of his father's collection of physical apparatus. On Monday evening a banquet was given in the Merchant Taylors' Hall, over which the Duke of Northumberland presided, the Prince of Wales and Duke of Cambridge being the principal guests. The company was a distinguished one, amongst the chemists present being Sir Frederick Abel, Professor H. E. Armstrong, Professor A. Crum Brown, Sir John Brunner, Mr. Michael Carteghe, Professor A. H. Church, Sir Wm. Crookes, Sir Edward Frankland, Dr. J. H. Gladstone, Mr. J. W. Heath, Mr. S. W. Johnson, Mr. R. N. Lennox, Professor R. Meldola, Dr. R. Messel, Dr. Ludwig Mond, Professor W. Odling, Sir W. Roberts-Austen, Sir Henry Roscoe, Dr. W. J. Russell, Mr. A. G. Salamon, Dr. A. Scott, Mr. J. W. Swan, Professor T. E. Thorpe, Mr. Thomas Tyrer, Professor Vernon Harcourt, and Professor A. W. Williamson. The Chairmen of the spur-tables were Sir F. Bramwell, Lord Rayleigh, Professor Jas. Dewar, and Sir J. C. Browne. Amongst the foreign guests present were Professor Liebreich (Berlin), Professor R. Cornu (Paris), Professor E. Gautier (Paris), Professor H. Kayser (Bonn), Professor S. L. Ciamician (Bologna), Mr. E. Solvay (Brussels), Professor N. Nasini (Padua), Professor Moissan (Paris), Professor W. Nernst (Göttingen), Professor Ostwald (Leipzig), Professor Arrhenius (Stockholm), and Professor S. Newcomb (Washington). During dinner the band of the Royal Artillery played selections. The toasts were:—"Her Majesty the Queen, Empress of India"; "His Royal Highness the Prince of Wales and the Royal Family," proposed by the Duke of Northumberland, K.G. (President), acknowledged by the Prince of Wales, K.G.; "The Royal Institution of Great Britain," proposed by the Duke of Cambridge, K.G., responded to by the Duke of Northumberland; "The Guests," proposed by the Lord Chancellor (the Right Hon. the Earl of Halsbury), responded to by Mr. S. P. Langley, D.C.L., F.R.S. (Secretary of the Smithsonian Institution, Washington), and by Professor A. Cornu, D.C.L., F.R.S. (Officier de la Legion d'Honneur, Membre de l'Institut, France).

The Prince of Wales made a good speech in replying to the toast of his health, and feelingly recalled his pupilage in physics, under Faraday, when he was a boy. Professor Cornu and Mr. Langley (of Washington) also made excellent speeches. On Tuesday afternoon Lord Rayleigh delivered a commemoration-lecture in the Institution, the Prince of Wales presiding, and Professor Dewar also lectured on Wednesday evening. The Lord and Lady Mayoress gave a reception at the Mansion House on Tuesday evening, which was largely attended, the company including the foreign *savants* who have been attending the Stokes jubilee celebrations. On Wednesday afternoon Dr. Ludwig Mond and Mrs. Mond gave a garden-party at their residence in Holland Park. This was a very brilliant affair, the weather being splendid. Many hundreds were present. Amongst those whom we noticed besides the foreign guests of the Royal Institution were, Sir Burdon Sanderson, Sir William Crookes, Professor Dewar, Sir W. Roberts-Austen, Sir J. T. Brunner, and Professor Gladstone. The celebrations have awakened considerable public interest.

### LORD RAYLEIGH'S CENTENARY LECTURE.

The announcement that the Prince of Wales was to preside at the afternoon lecture on June 6 by Lord Rayleigh was sufficient to ensure the filling of the lecture-theatre at the Royal Institution. Long before the hour of the lecture (3 o'clock) the chief places were occupied, those of the audience who came after 2.30 having to be contented with gallery-seats. The clock had just struck 3 when the Prince of Wales slowly walked into the room and took the

chairman's seat, the audience upstanding, and applauding the while. The Duke of Northumberland, the President of the Institution, accompanied the Prince, and sat on his right, and the Duke of Devonshire followed, and, after shaking hands with the Prince, sat on his left. In the meantime the managers had taken their seats, and Lord Rayleigh his place at the lecture-table, where he immediately began, "Your Royal Highness, ladies, and gentlemen." He said that it was utterly hopeless to attempt to give an idea of the chief works of all the distinguished professors who had been connected with the institution; that would require a week instead of an hour. He would, therefore, base his remarks chiefly on the philosophies of Dr. Thomas Young. Young's works on philosophy are becoming appreciated more and more, although, perhaps, not even yet are they known at their full worth. Young worked chiefly on the theories of light and colours, and was the chief founder of the wave theory of light, without which Tyndall's discoveries in radiation and absorption would have been impossible. Regarding perpetual motion, Young said that to contemplate the subject betrays gross ignorance and shows the weakness of human reason; but, although he was seldom wrong in his deductions, the remark that "he saw no reason to imagine any connection between electricity and magnetism" shows he was not infallible. It was Young who first found out that defective sight of elderly people was due to loss of accommodative power in the eye, and not to changes in the convexity of the cornea, as had been imagined. He also investigated the cause of astigmatism of the eye, which he himself was affected with, and suggested the use of sloping lenses as a corrective, the cylindrical lenses now used for astigmatism not being then known. Lord Rayleigh then reproduced some of the experiments of Young. The pith ball kept up by means of a jet of water, which is familiar to Londoners from seeing it in the windows of filter-shops, was varied by using a jet of compressed air, and also by a demonstration by means of a penny toy which is being sold on the streets. The experiment of combining red and green to make yellow was shown by means of a rapidly-rotating disc in the lantern by means of liquid colours. The room was almost instantaneously darkened to show the lantern experiments, the lantern, the lecturer added, being "a Davy's lamp fed by Faraday's current." After speaking of Young's work on the Newton rings, cohesion or capillarity, and the theory of tides, Lord Rayleigh passed on to speak of the work of some of the lecturers at the Friday evening meetings. Wedgwood here first showed his pictures obtained by the action of light on chloride of silver; and Fox Talbot, "a country gentleman of great originality," first took instantaneous photographs by means of an electric spark in that building. In reference to the quickness of an electric spark an interesting experiment was done. A disc, alternate segments of which were black and white, was rapidly revolved until a uniform grey colour was seen, the room was darkened, and a charge of magnesium exploded. In the momentary illumination given by the magnesium the disc still appeared grey, but on illuminating it by an electric spark, so instantaneous was the illumination that the black and white portions of the disc could be distinctly distinguished. Some examples of instantaneous photographs were then shown on the screen. Professor Boy's photograph of a bullet travelling at the rate of 2,000 feet a second, Worthington's photographs of the splash of milk caused by dropping into it a shot, and photographs of bursting soap-bubbles were the chief ones. The lecturer then passed on to Faraday's work, and illustrated his well-known experiment to prove the rotation of the plane of polarisation under the influence of the magnetic field. In this experiment the polariser and analyser are so arranged that the colour of the centre of the field is a pinky tint. The plane of the vibration was then turned by exciting a magnet which rendered the field a beautiful red or green, according to the direction of the poles. The lecture was ended by the Tyndall experiment on the sensitiveness of flame to sound, during which his method of measuring wave-lengths was demonstrated.

### PRESENTATION OF DIPLOMAS.

Sir James Crichton Browne then rose and beckoned to an attendant, who brought in a trayful of diplomas, which he asked the Prince of Wales to hand to the gentlemen whom



it had been decided to admit as honorary members in commemoration of the centenary. He said the diplomas would be carried to all parts of the world, and their value would be greatly enhanced in the eyes of their recipients by being bestowed by the hand of the Prince of Wales. "Our commemoration," he concluded, "accentuates the universal brotherhood of science, and may therefore do something to promote the concord of nations." The following were then presented to the Prince of Wales, and each received his diploma, accompanied by a smile, from his Royal Highness:—De E. Ador, Geneva; Prof. J. S. Ames, John Hopkins University, Baltimore, U.S.A.; Prof. S. Arrhenius, Stockholm; Prof. G. F. Barker, Philadelphia, U.S.A.; Prof. C. Barus, Brown University, Providence, U.S.A.; Prof. H. Becquerel, Ecole Polytechnique, Paris; Dr. L. Bleekrode, The Hague; Prof. G. L. Ciamician, University of Bologna; Prof. N. Egoroff, St. Petersburg; Prof. A. P. N. Franchimont, Leyden; Prof. H. G. Kayser, Bonn University; Prof. W. Korner, Milan; Mr. S. P. Langley, F.R.S., Sec. of the Smithsonian Institution, Washington, U.S.A.; Dr. O. Liebreich, Berlin; Prof. G. van der Mensbrugghe, Ghent University; Prof. A. A. Michelson, Chicago University; Prof. H. Moissan, Paris; Prof. R. Nasini, Padua; Prof. W. Nernst, Göttingen; and Mr. E. Solvay, Brussels. Prof. A. E. Gautier, Paris; Prof. W. Ostwald, Leipzig; Prof. R. Thurston, Ithaca; Prof. E. Villari, Naples; Prof. J. L. Violle, Paris; and Dr. W. L. Wilson, Washington, who were also elected honorary members on May 22, were unable to be present.

The Duke of Northumberland then said that as the Prince of Wales had to leave, owing to another engagement, he would depart from their programme by proposing a vote of thanks to his Royal Highness for presiding at the lecture. The Duke of Devonshire seconded the vote, and remarked that the present century will be known to future ages, not so much on account of its political changes, but because of the progress and advancement of science to which this country had largely contributed. (Cheers.)

The Prince of Wales, who was received with cheers, said he was deeply sensible of the kind words which had just been spoken. He (the Prince) looked back with pride to the early years of his acquaintance with the Royal Institution, and it gave him great pleasure to be present at the centenary meeting of such an important national institute. (Cheers.) The Prince of Wales then left, and a vote of thanks to Lord Rayleigh was proposed by Lord Lister and Lord Kelvin.

#### THE EXHIBITS

in the library were so numerous and uniformly interesting that it is difficult to know where to begin in a short description. The collection of physical apparatus belonging to the late William Spottiswoode, and presented this year to the Institution by Mr. W. Hugh Spottiswoode, occupied a large space. Mr. Spottiswoode, who died in 1883, was a former Treasurer and Secretary of the Royal Institution, and did a lot of work on polarised light and electricity, on which subjects he discoursed before the Friday evening audiences on many occasions. There is among the collection of apparatus a large induction-coil capable of giving a 42-inch spark. The coil is furnished with two primaries, either of which may be used at will. The core in the one used for long sparks is a bundle of iron wires weighing 67 lbs., and in the primary itself 55 lbs. of copper wire are used. In the secondary there are 280 miles of wire, which is wound in four sections, each section differing in the thickness of the wire used. There are a total number of 341,850 turns of wire in the secondary, and it is believed that the large sparks are due to the number of turns rather than to the great length of wire used. The battery used for high-tension sparks consists of ten Groves' cells, in which each sheet of platinum is 6½ by 3 inches.

Another feature of the collection is the Nicol's prisms and quartz plates and the polariscope which Mr. Spottiswoode used in his experiments. Models of Rumford's grates, fireplaces, and roasters alluded to last week in the *C. & D.*, page 892 were shown, and also the apparatus used by Young, Davy, Faraday, Tyndall and De la Rue. Among the Davy memorials are the medals which he was awarded and autograph letters written to his mother, and others received by him from Coleridge, Southey, Miss Edgeworth, and others. There were also shown several portraits of Faraday, his

chemical chest, desk, microscope and telescope. A large book containing a record of his laboratory-experiments is open at the page where is given a description of the rotation of planes of polarised light. It is clearly written, and illustrated by diagrams from Faraday's own hand.

The apparatus and relics here shown bear eloquent testimony of the large amount of original work which has been done at the Royal Institution in the last hundred years.

#### PROFESSOR DEWAR'S LECTURE.

The centenary proceedings reached a brilliant and triumphant climax on Wednesday evening in the lecture by Professor Dewar on "The Liquefaction of Hydrogen." The audience was crowded and fashionable, and with difficulty restrained their enthusiastic applause on the admonition of the Professor himself, who stated that silence was a necessity for the successful conduct of his experiments. Professor Dewar, at the outset, said he would not emulate the ample flight of his colleague, Lord Rayleigh, on the previous day, but would confine himself to an explanation of the method of liquefying hydrogen and to introducing that new agent of research into the lecture-room. When he looked back to the work of Lavoisier he understood from his writings that that distinguished scientist always believed that these gases were capable of being liquefied. This opinion was supported by Dalton, Davy, and Faraday; for in an early work Davy remarked "that some writers drew a peculiar distinction between permanent elastic and elastic fluids, whereas they only differed in the point of degree of evaporation. It was perfectly clear that Davy thought much on this subject, and much had been said—better left unsaid, he thought—of the relations between Davy and his pupil Faraday on the subject of the liquefaction of chlorine. Faraday deserved credit for an independent discovery of the liquefaction of this gas, but Davy was the first to suggest that liquid gases might be the means of producing low temperatures. Professor Dewar then went on to describe liquid hydrogen. He said it was a ticklish substance to deal with. It was not easily preserved, was exceedingly volatile, was costly and precious, and had to be produced with great care. There must necessarily be something which would enable them to preserve it as much as possible from radiation; and in his experiments he surrounded it with liquid air. At this point the Professor began a series of beautiful and interesting experiments, amid a tense silence and subdued applause. Unlike the last occasion, each experiment was successfully accomplished, and the screen showed every detail clearly to the complete and, at times, excited satisfaction of the lecturer. The liquid hydrogen was first shown boiling in a vacuum-tube surrounded by liquid air. An asbestos plug was carefully lowered into the hydrogen, and then quickly taken out and ignited, "to prove," said the Professor, "that it really is hydrogen we are dealing with." The hydrogen was poured from one vessel into another; a pith ball was lowered into the hydrogen, and sank about half-way, when it touched the side of the tube and stuck—"a trouble which we always have to contend with," said the lecturer. However, a piece of cork was afterwards dropped into the liquid, and it immediately sank to the bottom. The lowness of the temperature was next proved by a number of experiments. A solid body put in the liquid became so cold that the air around it was liquefied and ran off in drops, and when a tube filled with liquid air was plunged into it the air immediately became solid. An empty vessel placed in it filled with snow—solidified air—and then melted into a liquid. Oxygen, in a sealed tube became solid, and when lifted out first became liquid and then gaseous. Professor Dewar then proceeded to prove that hydrogen was not magnetic. In his opinion it was nearly neutral or diamagnetic. With regard to the real temperature of liquid hydrogen, it had taken him nearly a year to come to a definite conclusion on the point because he could not get any two thermometers to agree, but he had at last found that a German-silver electric-resistance thermometer and a hydrogen-gas thermometer agreed in placing it at 21° absolute—252° C. The latter part of the lecture was devoted to the extraordinary low vacua obtainable by the use of liquid hydrogen, the introduction of which, the lecturer claimed, was a triumph for theory as well as for practice.



Lord Kelvin immediately rose and said, as that was no ordinary occasion, he thought he was justified in breaking through the rule of the Institution and proposing a vote of thanks to Professor Dewar for his brilliant, beautiful, and interesting lecture. What would Count Rumford, or Davy, or Faraday have thought could they have been present? They could never have hoped for their scientific dreams and prophecies to have been so splendidly verified. "And I believe," continued his Lordship, turning repeatedly to Professor Dewar, who was obviously embarrassed, "that the end of research at low temperatures has by no means been reached, and perhaps in a few years"—here the professor looked up at the ceiling and smiled gently—"substances yet unknown and more refractory than hydrogen will be found which will bring the experimenter within five (instead of twenty-one) degrees of the absolute zero."

Sir G. G. Stokes seconded in a few words, speaking of the "grand achievement" of Professor Dewar, and the motion was carried by acclamation.

Professor Dewar, in reply, accorded a worthy tribute to his admirable assistant, Mr. Robert Lennox. "You see him," said the professor, "sitting on the floor. And I don't wonder at it, for the production of liquid hydrogen is no easy matter. He has been on his feet since 9 o'clock this morning, and has ensured our success this evening by the exercise of that care, consideration, and forethought which are characteristic of that country from which both of us originate." A similar expression of gratefulness was accorded to Mr. Heath, another assistant, and Professor Dewar proceeded to assert that his own chief function had been to get the wherewithal to carry out the experiments. He had been accused of squandering money recklessly in the production of liquid air, but what would be said of him now about liquid hydrogen? He then referred to the pecuniary help which had been given them by the father of their Chairman, by the Goldsmiths' Company, and by Dr. Ludwig Mond and Sir Andrew Noble.

The well-known resonant voice of Sir J. Crichton Browne was next heard. Sir James, as Treasurer of the Institution, was deputed by the Council to ask his Grace to present diplomas of honorary membership to Professor Cornu of Paris and Professor Newcomb of Washington. Professor Cornu, said Sir James, was a noble example of the splendid Gallic intellect, and he had had the pleasure of listening at Cambridge the other day to the most eloquent scientific oration by Professor Cornu that it has ever been his lot to hear. Professor Newcomb was a brilliant American astronomer, who has studied the heavenly bodies and the harmony of the spheres with singular success, and he was glad to see them on that occasion, when by the Herculean efforts of Professor Dewar they had been able to show them something worth seeing.

The diplomas presented, Sir F. Bramwell proposed a vote of thanks to the Chairman, which was seconded by Dr. Ludwig Mond and supported by Professor Barker, on behalf of the guests beyond the sea, who, he said, had received the greatest kindness, had been entertained most royally, and had listened to lectures such as the world had never before heard, and witnessed experiments such as it had never before seen.

The Duke of Northumberland closed the historic proceedings with a brief reply.

## New Books.

Any book named in this list can be supplied post-free to any part of the world on receipt of the published price by the Publisher of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

Douglas, C. C. *Chemical and Microscopical Aids to Clinical Diagnosis: Guide to Urinary, Gastric, and Other Analyses Employed in Practical Medicine.* Illus. 7½ x 4½. Pp. 270. 4s. 6d. net. (MacLehose.)

Griffith, J. P. C. *The Care of the Baby: a Manual for Mothers and Nurses.* 8vo. 2s. (Rebman.)

McCaw, J. *Aids to the Diagnosis and Treatment of Diseases of Children.* 4¼ x 6½. Pp. 241. 3s. 6d. (Baillière, Tindall.)

Pearman, T. H., and Moor, C. G. *Aids to the Analysis of Food and Drugs.* 4¼ x 6½. Pp. 206. 3s. 6d. (Baillière, Tindall.)

## Legal Reports.

### Sale of Food and Drugs Act.

#### OLIVE OIL.

AT West London Police Court, on June 1, Messrs. King & Mortimer (Limited), Old Broad Street, E.C., were summoned in respect of the sale of olive oil which contained 70 per cent. of oil other than olive oil. Mr. Blanco White, who prosecuted on behalf of the Fulham Vestry, said the defendants had already been fined. However, he mentioned that he had received a letter from the secretary stating that it was the intention of the company to correct the price-lists. The Magistrate thought there had been carelessness in selling the oil after the conviction, and imposed a penalty of 5s., with 1s. 3s. costs.

#### FORMALIN IN MILK.

A FIRM of dairymen were proceeded against at Blackpool, on June 5, for the illegal use of formalin as a preservative in milk. The Analyst condemned the use of formalin as unnecessary, and, being a test-case, the charge was withdrawn on payment of costs.

### The Irish Pharmacy Act.

#### APOTHECARIES' APPRENTICES.

ON June 3, in the Queen's Bench Division of the Irish High Court, before Justices O'Brien and Boyd, an application was made on behalf of Mr. William Miller, of Coleraine and London, for a conditional order for a mandamus to issue directed to the Pharmaceutical Society of Ireland to compel that body to admit him to their Licence examination. Section 22 of the Pharmacy Act of 1875 provides that candidate chemists must be examined in chemistry, botany, and certain other subjects before being admitted as pharmaceutical chemists. The Society, in pursuance of certain statutory powers, made a regulation that all such candidates before being admitted to the examination should serve an apprenticeship of four years at least with a pharmaceutical chemist, an apothecary keeping open shop, or a firm of legally-qualified pharmaceutical chemists. Accordingly Mr. Miller entered into an apprenticeship of five years with Dr. Charles Forsythe, of Coleraine, in 1891, and remained with him till 1896. Dr. Forsythe is a licentiate of the Apothecaries' Hall, Dublin, in addition to being an M.D. of the Queen's University and a licentiate of the Royal College of Surgeons, and he resides and practises in Coleraine. The Pharmaceutical Society refused to accept the apprenticeship of Mr. Miller which had been served with Dr. Forsythe, and refused to admit him to the examination on various grounds, one of them being that although Dr. Forsythe was a licentiate of Apothecaries' Hall, he was not one within the meaning of the old Apothecaries' Hall Act of 1791.

The Court granted a conditional order for a mandamus.

Mr. William Moore, Q.C., M.P., and Mr. W. J. Johnston appeared for the applicant.

### County Court Case.

#### AN ANALYST'S CLAIM.

ON May 31, at the Northwich County Court, Charles Mountain Blades, analytical chemist, of Northwich, claimed from Charles Weldon, of the Erith Brick, Tile, & Terracotta Company, of Coed Talon, Mold, the sum of 50s. for professional services rendered to the company. Evidence showed that, as the result of a note in the *British Claymaker*, the defendant wrote to the plaintiff asking if he could advise how to remove scum from bricks, and how to improve the colour. It was decided that plaintiff should make analyses of the clay at 4s. 4s., and that he should subsequently undertake experiments for which he would make no charge until "a successful result was obtained, when it would be a matter of mutual agreement as to fee." After many experiments he visited the defendant's works, and there ascertained, he deposed, that dry salt was being used in the manufacture of blue bricks. He instructed the defendant as to the action of wet salt, which he guaranteed would produce the proper

colour. He further said he had elaborated a process for the cheap production of blue bricks, and he offered to divulge his scheme for 50*l*. for the process and the work he had done, 25*l*. to be paid first. Defendant offered 5*l*. down and 5*l*. on the successful carrying out of the scheme. For the defence it was contended that the plaintiff had done no service of value, and that the wet-salt process he had described had been in use at the same works for over twelve months. Evidence in support of this contention was adduced, and Judge Ffoulkes gave judgment for the defendant, with costs.

### Property in Syphons.

At the Blackburn County Court, on Monday, Judge Coventry gave his decision in the case of James Henry Caff, mineral-water manufacturer, of Manchester, against Joseph Sidebottom, chemist, of Church. The action, which we have already reported, was brought to recover the value of three dozen soda-water syphons, and damages for the erasure therefrom of plaintiff's name and trade-mark. His Honour reviewed the evidence as to the sale of Peate's business to the defendant, and referred also to defendant's plea that he had bought the syphons in the trade-stock of Peate's business, and therefore considered them his own property. But there was nothing, said his Honour, to show that Peate had ever paid for a single syphon in his dealings with plaintiff's firm. Peate was responsible for their return, and had no property in them, and the defendant therefore acquired no title in them when he bought Peate's business, as they belonged to the plaintiffs. As to the claim—3*l*. 12*s*.—asked for for damaging the syphons, he could not see any evidence of wilful damage. These syphons had come into the possession of the defendant through the sale of Peate's business to him, and it was impossible for him (the Judge) to say that the defendant was bound to know that the syphons belonged to the plaintiff. It appeared there were two dozen syphons still in the possession of the defendant, and in respect of these the plaintiff was bound to succeed. There would be a verdict for that amount, to be reduced to 1*s*. if given up. Then, as to costs. Under the circumstances—practically no attempt having been made through the proper agencies to collect these bottles for some four years—there was no particular blame upon the defendant for keeping them. Therefore each party would have to bear his own costs.

### New Companies & Company News.

**THE IRISH PRESERVE AND CONFECTIONERY COMPANY (LIMITED).**—Registered at Dublin with a capital of 30,000*l*. One of the objects of the company is to carry on business as druggists.

**INDUSTRIAL REFINING SYNDICATE (LIMITED).**—Capital 6,000*l*., in 1*l*. shares. Objects: To acquire certain patents and to carry on business as drysalts, oil and colour men, drug and colour grinders, and refiners of sugar, oil, &c. Registered office, 39 Whitepost Lane, Hackney Wick.

**SLATER BROTHERS (LIMITED).**—Capital 3,000*l*., in 1*l*. shares. Objects: To carry on the business of surgical-instrument makers, chemists' sundriesmen, and manufacturers of pharmaceutical appliances carried on by "Slater Brothers." Stanley R. Slater, of 2 Dyer's Buildings, Holborn, W.C., is the first managing director.

**EAST LANCASHIRE SOAP COMPANY (LIMITED).**—Capital 100,000*l*., in 1*l*. shares. Objects: To acquire the business carried on by William H. and Joshua Hacking, at Clayton-le-Moors, as the "East Lancashire Soap Company," and to manufacture and deal in soap, glycerin, oil, chemicals, drugs, &c. Registered office, Enfield Soapworks, Clayton-le-Moors, Lancs.

**PEGG & Co. (LIMITED).**—Capital 12,000*l*., in 10*l*. shares. Objects: To acquire the business carried on at Morledge Mills, Derby, and King's Mills, Worcs.; to enter into an agreement with Z. Smith and Sarah A. Smith; and to carry on the business of colour, varnish, and drug manufacturers-

and merchants. The first directors are Z. Smith, J. A. Smith, and F. Swindell.

**PATENT MEDICINE AND HYGIENIC PRODUCTS (SOCIÉTÉ GÉNÉRALE DES SPECIALITES PHARMACEUTIQUES ET HYGIENIQUES) COMPANY (LIMITED).**—Capital 50,000*l*., in 1*l*. shares. Objects: To enter into an agreement with Henri Graidel-Denis, and to carry on the business of patent-medicine vendors, drysalts, oilmen, &c. Registered office, 11 Queen Victoria Street, E.C.

**JOHN IDIENS & SONS (LIMITED).**—Capital 50,000*l*., in 1*l*. shares. Objects: To acquire the business of "John Idiens & Sons (Limited)," of Evesham, and to carry on business as coal merchants, contractors, engineers, manufacturing and general chemists and druggists, &c. The first directors are, J. Idiens, F. Idiens, W. Idiens, and J. Inns. Registered office, 91 High Street, Evesham, Worcestershire.

**SLIGO DRUG COMPANY (LIMITED).**—Registered at Dublin. Capital 600*l*., in 1*l*. shares. Objects: To carry on the business of chemists, druggists, drysalts, &c. The subscribers are:—M. T. Casey, Bruff, co. Limerick, M.D.; Miss B. M. Casey, hospital, co. Limerick; Miss M. Curran, hospital, co. Limerick; M. C. Casey, Stephen Street, Sligo, gentleman; Mrs. M. Kernaighan, Stephen Street, Sligo; and Mrs. A. Casey, Stephen Street, Sligo. Michael C. Casey is the first director. Registered office, Stephen Street, Sligo.

**FOLEY'S (LIMITED).**—Capital 3,000*l*., in 1*l*. shares (250 founders). Objects: To carry on business as dentists, dental surgeons, and dealers in anatomical and surgical appliances. The subscribers are all dentists, as follows:—S. Foley, 265 Westminster Bridge Road, S.E.; F. J. McCulloch, 3 Carthew Road, Shepherd's Bush; G. W. F. Smith, Hull; W. H. Mosley, Ipswich; J. Parkinson, 28 Gloucester Street, Theobald's Road, London; W. E. P. Haigh, 15 Wilmington Square, W.C.; and W. J. Julien, 36 Pickering Place, Bayswater.

**W. T. JACKSON (LIMITED).**—Capital 2,000*l*., in 1*l*. shares. Objects: To take over the business of W. T. Jackson, wholesale and retail chemist and druggist, of Stanley Square, Stalybridge, Cheshire. The first subscribers are:—J. Storrs, Stalybridge, builder; W. P. Tait, Stalybridge, surgeon; J. Carter, Stalybridge, engineer; W. Crossley, Dukinfield; spindle-maker; J. Buckley, Stalybridge, licensed victualler; H. Howard, Stalybridge, butcher; and H. K. Jackson, Stalybridge, traveller. The first directors are James Storrs (chairman), William P. Tait, and James Carter. Registered office, Stanley Square, Stalybridge, Cheshire.

**GENERAL CHEMICAL COMPANY (LIMITED).**—Capital, 10,000*l*., in 10*l*. shares. Objects: To carry on business as chemical manufacturers and merchants, dealers in chemical materials, analytical chemists, druggists, &c. The subscribers are:—W. Rosenheim, 8 Belsize Grove, Hampstead, merchant (20 shares); T. Rosenheim, 72 Belsize Park Gardens, Hampstead, N.W., merchant (20 shares); M. Rosenheim, merchant (20 shares); L. Rosenheim, gentleman (50 shares), O. Rosenheim, gentleman (50 shares), and M. Rosenheim, merchant (100 shares), all of 68 Belsize Park Gardens, Hampstead, N.W.; and P. Schidwintz, 44 Great Marlborough Street, W., gentleman (40 shares). Registered without articles of association.

**PELHAM'S (LIMITED).**—Capital 2,000*l*., in 1*l*. shares. Objects: To acquire and carry on the business of patent-medicine vendors and manufacturers of chemical and pharmaceutical preparations carried on by E. W. Folkes at 188 Fleet Street, E.C., as "The Pelham Medicine Company." The first subscribers are:—E. W. Folkes, 188 Fleet Street, E.C., patent-medicine manufacturer; Miss M. L. Genty, 30 Fleet Street, E.C.; A. Drayson, 203 Strand, W.C., publisher; H. H. Hussey, 188 Fleet Street, E.C., gentleman; W. H. Randall, 4 Treharne Road, S.W., accountant; H. P. Etheridge, 13 Wynne Road, S.W., clerk; and J. Hussey, 188 Fleet Street, E.C., housekeeper. E. W. Folkes is the first managing director, and may appoint other directors. Remuneration, 100*l*. per annum, and 10 per cent. of the annual turnover.

**LESLIE MARTYN (LIMITED).**—Capital 2,000*l*., in 1*l*. shares. Objects: To acquire and carry on the business of vendors of patent medicines and proprietary articles, and



manufacturers of chemical and pharmaceutical preparations, carried on by J. W. Davies at 34 Dalston Lane, N.E., as "Martyn's" and "Leslie Martyn." The first subscribers (each with one share) are:—E. N. Illingworth, 7 Windsor Terrace, City Road, E.C., clerk; J. W. Boddy, 21 Norfolk Street, Mile End, E., manager; S. J. Jelley, 27 College Road, Kensal Rise, chemist; H. J. Chinu, 38 Broke Road, Dalston, N.E., chemists' sundriesman; W. C. Smith, 160 Queen's Road, Dalston, N.E., civil servant; J. W. Davies, 85A Forest Road, Dalston, advertising-contractor; and H. H. Green, 31 Broke Road, Dalston, secretary. J. W. Davies is managing director with 100% per annum, and one-third of the net profits when 10 per cent. is paid.

**CARBONIDE MANUFACTURING COMPANY (LIMITED).**—Capital, 5,000% in 1% shares. Objects: To adopt an agreement with L. H. Grundy, and to carry on business as manufacturers and importers of and dealers in chemical, industrial, and other preparations, compounds, cements, oils, paints, drugs, &c. The first subscribers are:—E. B. Neill, North Lodge, Broughton Park, Manchester, merchant; J. Pownall, 43 Rusholme Road, Chorlton-on-Medlock, warehouseman; E. Johnstone, Chaseley, Urmston Lane, Stretford, salesman; A. Cavanagh, 14 Alfred Street, Harpurhey, Manchester, clerk; L. H. Grundy, Victoria Road, Stockport, merchant; J. Jackson, Fallowfield, near Manchester, printer; and J. O. Neill, Little Leigh, Cheshire, gentleman. The first directors are J. S. Neill (chairman), L. H. Grundy, J. O. Neill, and E. B. Neill.

**VINOLIA (LIMITED).**—From time to time rumours have been current that the Vinolia prospectus might be expected, and we are now able to state on reliable authority that it will be issued in the course of this month. The capital in all probability will be 300,000%, divided into preference and ordinary shares, but only the former will be offered for subscription, the present proprietors retaining the whole of the ordinary shares.

**CHEMISCHE FABRIK VON HEYDEN.**—This business was reconverted into a joint-stock company on May 15, with a capital of 5,000,000m. in 5,000 fully-paid shares. The new company has taken over the chemical-factory of von Heyden. The board of directors consists of Dr. Karl Kolbe (as general director) and Drs. Seifert and Vorlaender.

**A. S. WATSON & Co. (LIMITED),** Hong-Kong, Singapore, and elsewhere.—The net profits of this company for the twelve months ending December 31, 1898, after paying all charges, including general management and providing for all bad and doubtful debts, and with the addition of \$9,239.01 brought forward from last year, amount to \$106,693.24. From this there has been written off for depreciation of furniture, utensils of trade, &c., \$11,375.89, leaving an available balance of \$95,317.35. An interim dividend of 5 per cent. was paid in November, and the directors now propose to pay a further dividend of 6 per cent., which will absorb \$35,000.00, also to place to permanent reserve fund \$25,000, and to carry forward to 1899 account \$4,317.35. Permanent reserve fund now stands at \$125,000, and reserve fund to meet contingencies, or for the equalisation of dividends, remains at \$25,000. In the balance-sheet appears an item "security deposit from staff" \$12,750. The report says the business of the company continues to be of a satisfactory and progressive character.

**LIEBIG'S EXTRACT OF MEAT COMPANY (LIMITED).**—The ordinary general meeting of the shareholders of Liebig's Extract of Meat Company (Limited) was held on June 1 at the Cannon Street Hotel. Mr. C. E. Gunther, who presided, said the result of the financial year was very satisfactory. After making liberal allowances for writing off, the directors proposed a dividend, which, with the interim dividend paid in February last, equalled 20 per cent. per annum. The company owned and rented about a quarter of a million acres of the finest land in Uruguay, and they had now purchased a large camp in the north of Argentina, and rented a neighbouring estancia, comprising together 200,000 acres. This would materially increase the sources of their supply. The satisfactory dividends earned he attributed partly to the relatively good prices of produce, but, above all, to the steady development in the sale of the

company's extract of meat. They had always felt that no labour and expense could be considered too great to ensure absolute purity and perfection of manufacture, and their policy had been crowned with success by the unstinted appreciation of people of all nations. The *Belgica*—the first vessel to winter in the Antarctic—carried the company's extract amongst her stores in her South Polar expedition. The report was unanimously adopted.

**WOODCOCK'S AMMONIA FOAM COMPANY (LIMITED).**—At the Birkenhead County Court, on June 2, Alderman James Woodcock, chemist, vendor and promoter of Woodcock's Ammonia Foam Company, applied for an order granting him relief from the liability to pay for 250 shares—150 allotted to him and the remaining 100 to his two daughters—as part of the purchase-money of the business formerly carried on by him, under the provisions of the Companies Act, 1898, no agreement of which transactions had, however, been filed, pursuant to the 25th section of the Act of 1867. During cross-examination by counsel for the liquidator (Mr. McConkey), Mr. Woodcock stated that he had inadvertently and in ignorance omitted to register the agreement, as he had not been advised by any solicitor in the matter. The Woodcock's Ammonia Foam Company (Limited) was registered on September 10, 1896. He had previously carried on the manufacture of the foam for eighteen months, and had sold 300% worth of the article. He produced the agreement referring to the sale of the business. By the sale he received 750% in cash and 250% in shares. He was appointed managing director and secretary. After further examination as to his bookkeeping methods Mr. Woodcock stated that the only balance-sheet issued was for the fifteen months ending December, 1897, which showed a loss of 468%. He could not say whether they were losing money in 1893, nor why they went into liquidation. His salary for the first six months was 1% a week, and then it was raised. Mr. McConkey argued that applicant should not be afforded relief under the circumstances. He had floated a company, and asked for 5,000% capital on a business which up to that date had transactions to the extent of 300% only. Out of the 1,500% raised he at once took half in cash, then took 250 1% shares. The company, in its first year's working, lost 468%, and now against its liabilities of 1,100% could only show assets of 175%. In fact, nobody got anything out of the business except the applicant himself.

His Honour refused the application, with costs.

## Marriages.

**MUTER—THYNNE.**—On June 7, at St. Alban's, Teddington, by the Rev. J. C. Gray, B.A., assisted by the Rev. F. L. Boyd, M.A., Vicar, Alexander Henry Mitchell Muter, A.I.C., elder son of Dr. John Muter, F.R.S.E., of Kennington Road, and the Chatelet, Horley, Surrey, to Barbara (Cherry), youngest daughter of the late Frederick G. Thynne, of Riverside Lodge, Teddington.

**WITHINSHAW—MOSS.**—On June 3, at St. Peter's Church, Brockley, by the Rev. E. J. Kennedy, M.A., Vicar of St. James's, Hatcham, Charles Wesley Withinslaw, L.R.C.P.E., L.R.C.S.E., to Ethel, younger daughter of John Moss, Tre-sillian Road, St. John's, S.E.

## Deaths.

**BLACKMORE.**—At Cheshunt, on May 30, Mr. Peter Ludgate Blackmore, chemist and druggist. Aged 51. The late Mr. Blackmore was a well-known Freemason, having been a Provincial Grand Officer and a Past-Master of the King Harold and James Terry Lodges.

**CROWTHER.**—On May 24, Mr. Arthur Crowther, chemist and druggist, Hull. Aged 43.

**LAWSON.**—On May 22, Mr. Edward James Lawson, chemist and druggist, Tottenham. Aged 43.

**RAMSDEN.**—At Newport, Salop, Mr. George Ramsden, chemist and druggist. Aged 73.

**SMITH.**—On May 26, Mr. Alfred James Smith, chemist and druggist, Devonport. Aged 60.

## Birthday Honours.

THERE was little extraordinary about last Saturday's list of honours conferred by the Queen on the occasion of her eightieth birthday. Science does not figure in the list, the K.C.B. conferred upon Mr. Preece, formerly electrician to the Post Office, being an official recognition of services to the State. Several medical men have been honoured. First amongst them is John Scott Burdon Sanderson, M.D., F.R.C.S., D.C.L., D.Sc., LL.D., F.R.S., upon whom a

baronetcy has been conferred. Professor Burdon Sanderson was born in Newcastle-on-Tyne in 1828, and was educated at the Edinburgh University, where he graduated M.A., thereafter taking up medical studies and becoming one of the most distinguished students of his year. He took the M.D. Edinburgh in 1851, and, while an undergraduate, was appointed President of the Royal Medical Society, which is regarded as the highest honour that can be paid to an Edinburgh medical

student by his fellow students. Professor Sanderson also studied at Oxford, and after he qualified he came to London as an assistant physician and lecturer in Middlesex Hospital. By 1867 he had been appointed Croonian Lecturer at the Royal Society. He was superintendent of the Brown Institution from 1871 to 1878, and from 1874 held the Jodrell Professorship of Physiology at University College, London, which he resigned in 1882 to take up the Waynflete Professorship of Physiology at Oxford, which he held until 1895, when he became Regius Professor of Medicine in the same University. Professor Burdon Sanderson is one of the most distinguished biologists of the day, and his studies in medicine and physiology have covered a wide range. He was President of the British Association in 1893.

Michael Foster, B.A., M.D., M.R.C.S., D.C.L., D.Sc., LL.D., F.R.S., F.C.S., upon whom her Majesty the Queen has conferred the dignity of a K.C.B., is a son of the

distinguished surgeon of the same name who practised in Huntingdon, where the new knight was born in 1836. He received his professional education in University College, London, and graduated B.A. at the London University in 1854, M.B. in 1858, and M.D. in 1859. As a physiologist he has gained world-wide reputation. He began to teach the subject at University College, London, in 1867, having for seven years before this practised as a surgeon at Huntingdon. In 1869

he was promoted to the Professorship of Practical Physiology at the College, and also held the Fullerian Professorship of Physiology at the Royal Institution, London. He has been Professor of

Physiology at Cambridge University since 1883, but from 1870 was praelector of that subject in Trinity College, Cambridge. Professor Foster is one of the Secretaries of the Royal Society, and President-elect of the British Association. He is a clever after-dinner speaker, and the Pharmaceutical Society are well acquainted with his efforts in that direction. He is the author of a text-book of physiology and other works.

William Mitchell Banks, M.D., F.R.C.S., is a well-known Liverpool medical practitioner, upon whom the Queen has conferred a knighthood. Dr. Banks graduated as M.D. at the Edinburgh University in 1864 with distinction. He acted as Demonstrator of Anatomy in the University of Glasgow, under the late Professor Allan Thomson, for two years. He next became assistant to Mr. Bickersteth, a celebrated Liverpool oculist, with whom he remained for some years. Early in his career he was appointed Lecturer



JOHN SCOTT BURDON SANDERSON, M.D., F.R.C.S., D.C.L., D.Sc., LL.D., F.R.S.



WILLIAM MITCHELL BANKS, M.D., F.R.C.S.

on Anatomy in the Liverpool Royal Infirmary School of Medicine, where his lectures were regarded as models of lucid exposition. His chief work has been in the resuscitation of the School of Medicine in Liverpool, and the Organisation of the University College, and, when he retired from the Anatomy professorship to devote himself exclusively to private practice, he was appointed Emeritus Professor. He represented Victoria University on the General Medical Council from 1886 until 1891, and is on the Council of the Royal College of Surgeons. Dr. Banks has contributed numerous surgical papers to various journals and societies, but his name is particularly associated with the advocacy of extensive operative measures for the removal of cancer in the breast, and with attempts to find the most suitable operation for the radical cure of rupture. He is the author of a book called "The Gentle Doctor," known to his profession throughout the English-speaking world. He is an ideal after-dinner speaker, his speeches brimming with wit and pungent epigram.

Several medical men in the Navy Service receive honours, and Mr. George Herbert Murray, C.B., Secretary of the Post Office, is made a K.C.B.

**TRADE OF TRAVANCORE.**—In a report on the administration of Travancore for 1897-98, which has been recently published, it is stated that there was an increase in the trade in copra, cocoa-nut oil, cocoa-nuts, areca-nuts, dry ginger, tamarinds, and cardamoms; while pepper (among other goods) showed a decline. The bulk of the entire trade—viz., 88.04 per cent.—was with British India, and the balance, 13.96 per cent., with foreign countries, including Ceylon.



MICHAEL FOSTER, B.A., M.D., M.R.C.S., D.C.L., D.Sc., LL.D., F.R.S., F.C.S.



## Trade Notes.

THE PENNY CHAMELEON FLY-CATCHER coats a dozen strings, we said last week; but the manufacturers tell us that this is what the 3d. one will do easily. They do not guarantee the 1d. one to do more than three.

MR. W. R. ANDREW, who has for many years been connected with the firm of Linton, Hubbard & Co., merchants, 27 Leadenhall Street, E.C., has been taken into partnership, and the title of the firm in future will be Linton, Hubbard & Andrew.

AN AMALGAMATION of the businesses of Messrs. W. Kemsley & Co., general merchants and importers, 44 Leadenhall Street, E.C., Messrs. Tozer Brothers & Co., insurance brokers, 85 Gracechurch Street, E.C., and Messrs. Budden, Fisher & Co., general merchants, 47 Lime Street, E.C., has taken place. The united firms will, in future, trade under the title of Tozer, Kemsley & Fisher (Limited), at Leadenhall Buildings, 98 Gracechurch Street, E.C.

MESSRS. LORIMER & Co. send us a copy of their new price-list, which extends to over ninety quarto pages, and is well illustrated. In their introductory remarks Messrs. Lorimer & Co. refer to the impression in the trade that they are proprietors of retail shops, notably those of Parke's Drug Stores (Limited), Bishop's Pure Drug Company, and others. They add:—

We almost wish the story were true. As a matter of fact, our partners, in their private capacity, are pleased to hold shares in such and many other commercial stores, and we assist, and have assisted, by loans and otherwise, many retailers, all of whom we are proud to class amongst our numerous customers and treat them as such. We sell them all we can, while they, like others, buy only such goods as sell readily and profitably. Certain competitors have invented these false statements as to proprietorship purely for business purposes. Hence we refer to the matter definitely, and beg to assure customers that we will not be coerced or intimidated by any such dishonest or unsportsmanlike tactics. We will continue to invest our money and assist whom we please, always with due regard to the interests of our friends.

Messrs. Lorimer & Co. are to be congratulated on the definiteness of their announcement, but we do not see why they should characterise as false, statements which a sentence before they have admitted to be practically true. It would be unreasonable to attack them because they supply stores, for there are very few firms in the drug-trade who do not when they have the chance; but the intimation that they assist retailers "by loans and otherwise" is worthy of remark. It is assistance of this kind, by loans and otherwise (by supplying goods to persons who have not the money to pay for them, for instance), that is one of the most insidious dangers to which the drug-trade is subject. The retailer who pays for his goods as he gets them, with his own money, is in business to make a profit out of it, while those who live on "loans and otherwise" are not infrequently tempted to sell articles under cost-price in order to realise a little ready cash.

## Westminster Wisdom.

### THE UNQUALIFIED DISPENSER.

The duel between the member for Glyn-Jones and the Privy Council is not yet finished. Major Rasch, M.P., has given notice to ask the Vice-President of the Council on Friday of this week "whether any provision has been made by which accidents resulting from mistakes made by unqualified dispensers in doctors' surgeries are brought to the notice of the Privy Council; and, if so, whose duty it is to report such cases, and is the Government in a position to state the number of such cases which have occurred during the past two years." It will be remembered that in the last round Sir John Gorst alluded to "the infrequency with which such cases are reported to the Privy Council."

### "TRUTH" ON THE COMPANIES BILL.

The Editor of *Truth* continues to take a keen and intelligent interest in the Lord Chancellor's unfair attack on chemists. The following appears in the current issue:—

"A curious circumstance has been pointed out to me in connection with Lord Halsbury's twin Bills making it (1) lawful for a company to trade as pharmaceutical chemists, but (2) unlawful for a company to carry on business as doctors or dentists. It appears that the substance of both these measures has been reproduced in Clauses 2 and 3 of the Companies Bill as amended by the Select Committee of the House of Lords. The latter Bill is otherwise concerned solely with technical amendments of company law, and why these irrelevant proposals relating to chemists and dentists should have been incorporated in it is a mystery. It looks at first sight like an attempt to smuggle through Parliament as unobtrusively as possible two measures which are strangely inconsistent, and which, for reasons I have previously explained, are both strongly opposed in their present form. If that be the object, however, it is scarcely probable that the manœuvre will succeed."

### THE LORD CHANCELLOR'S PROPOSALS.

The Lord Chancellor's two Bills still remain on the notice paper, "waiting for second reading." The Companies Bill is "waiting for committee." The Report of the Select Committee has not yet been issued.

### PREVENTION OF CORRUPTION BILL.

Lord Russell's Bill for the suppression of secret commissions in trade was read a second time in the House of Lords on Tuesday, with the expressed blessing of the Bishops of London and Winchester. The Lord Chancellor, while agreeing that something ought to be done, pointed out the danger when everybody holds that opinion that they are likely to do more than they intend. He thought this Bill might be misunderstood in some particulars, and he especially suggested that the preamble was perhaps a little too sweeping in stamping this century with the corruption of morals. Lord Russell said he intended to move to omit the preamble altogether.

## Business Changes.

*Notices of changes in the retail trade, and opening of new businesses, are inserted in this section free of charge, if properly authenticated.*

MR. J. W. TAPLIN, of Harlesden, is opening a new pharmacy in High Street, Cricklewood.

TAYLOR'S DRUG COMPANY (LIMITED) are about to open a chemist's shop at 20 High Street, Oldham.

MESSRS. J. BAILY & Co., chemists, have removed their business at Cliftonville, Margate, to 2 Ethelbert Terrace, Margate.

MR. H. M. BINDLOSS, chemist and druggist, has succeeded to the business of Mr. J. Noble, at Craven Park Road, Harlesden.

MR. D. MCDUGALL, chemist and druggist, has purchased the business of the late Mr. Charles Thomson, pharmaceutical chemist, Elie.

MR. A. E. DAVIS, chemist and druggist, has taken over the pharmacy at Matlock Bridge, lately carried on by Mr. T. Asbury, for whom he has been manager for the past five years.

MR. EDWARD BARROW, chemist and druggist, who has carried on business for many years in Kirkstall, has transferred his pharmacy to Mr. F. W. Hollingworth, chemist, formerly of Leeds.

MR. JAMES R. MACROSSEN, late of Brechin and Forfar, has taken over the business of the late Mr. Alex. Kinninmont, dispensing chemist, at 261 Maxwell Road, Pollok-shields, Glasgow.

MR. S. W. WELCH, who has been associated with Messrs. Baiss Brothers & Co for twenty-six years, has, by arrangement with them, acquired the business of Hipwood & Co., manufacturing chemists and essential-oil distillers, 20 Jewry Street, Mark Lane, London, E.C.

THE amalgamation of the wholesale drug firms Messrs Baiss Brothers & Co., 4 Jewry Street, E.C., and H. E. Stevenson & Co., Southwark Street, S.E., is announced this week. The partners in the new concern will be Messrs. Arnold Baiss, Sydney Baiss, and H. E. Stevenson, with the trading name Baiss Brothers & Stevenson. The old firm was founded in 1833, but prior to that year Mr. Arnold Baiss's father was a partner in the firm of Drew, Heyward & Baiss. Messrs. Baiss Brothers & Co. are one of the few wholesale drug-houses in London who have changed little, in trade-name at least, since their inception. The firm have a well-established and wide home and foreign trade, and are Government contractors supplying the India and War Offices. Mr. H. E. Stevenson has been connected with the London drug-trade for nearly a quarter of a century. It is twenty years since he joined Mr. F. W. Fletcher in partnership, with whom he built up a good export business, which he cemented during a colonial tour ten years, and this part of the business he acquired solely, and has greatly developed during recent years. The amalgamation of the two concerns will, we understand, give further opportunities for enterprise, especially as the combined business is to be controlled from 4 Jewry Street, the laboratories at Black Horse Yard, E., and Southwark Street being retained for manufacturing purposes.

## Personalities.

MR. J. BARRE JOHNSTON, of Sydney, N.S.W., is expected in London shortly on a business visit.

MR. THOMAS MILLER, chemist and druggist, has been elected a member of Wednesfield School Board.

MR. W. B. SMITH, chemist, Gosport, is one of the directors of the new London and District Sanitary Laundries Company (Limited).

MR. WILLIAM R. WARNER, of W. R. Warner & Co., Philadelphia, has been elected a member of the American Geographical Society.

MR. ALFRED RADLEY BRIGGS, chemist and druggist, Highbury, has been elected to fill a casual vacancy on the Highbury Town Council.

MR. ALEXANDER WILSON, of Brisbane, who has represented the firm of Taylor & Colledge, previously known as Prosser, Taylor & Co., is visiting this country.

MR. JOHN GILBERT BAKER, F.R.S., who recently retired from the keepership of the herbarium at the Royal Gardens, Kew, has been awarded the gold medal of the Linnean Society, in recognition of his contributions to botanical science.

MR. E. F. HARRISON, B.Sc., Ph.C., F.C.S., a former Bell scholar and worker in the Pharmaceutical Research Laboratory, who latterly has been with Messrs. Brady & Martin, Newcastle-on-Tyne, is joining Messrs. Burroughs, Wellcome & Co.'s staff at Dartford as chief analytical chemist.

ON Thursday the Oxford University conferred the degree of D.C.L. *honoris causa* upon Guglielmo Korner, Professor of Chemistry, Milan; Matthias Eugen Oscar Liebreich, Director of the Pharmacological Laboratory and Professor of Pharmacology in the University of Berlin; and Henri Moissan, Professor of Toxicology, Ecole Supérieure de Pharmacie, Paris. The same degree is to be conferred, on June 21, upon, amongst others, Mr. James George Frazer, M.A., Fellow of Trinity, Cambridge, son of Mr. Daniel Frazer, the well-known Glasgow pharmacist.

AT Cambridge, on June 6, the celebrations in connection with the jubilee of Sir George Gabriel Stokes as Lucasian Professor of Mathematics passed off most successfully. The Vice-Chancellor presided at a Congregation in the morning, when addresses were presented to Sir George by representatives of learned societies from all parts of the world. Sir George Stokes, in spite of these flattering tributes, said that he ought to have worked a good deal harder; but perhaps it was because he had not done so that he stood before them, and in excellent health. The Duke of Devonshire, Chancellor of the University, presided at the afternoon

Congregation, when an address from the University and a commemorative gold medal were presented by the Chancellor, who referred to the honourable pre-eminence which Cambridge had held in mathematical studies since the days of Stokes's illustrious predecessor Sir Isaac Newton. The medal of the French Institute was unexpectedly presented by Professor Cornu, and Sir George, who was agreeably surprised, briefly returned thanks.

## The Valuation of Insect-powder.

By EDWIN DOWDARD, F.C.S.

THE value of insect-powder, of course, depends upon its power of stupefying and killing insects. The physiological test (using cockroaches) is not convenient, and at the same time does not give very reliable results. I have found that the time required to stupefy cockroaches is usually proportional to the amount of ether-soluble matter present in the sample.

*Estimation of Ether-soluble Matter.*—Two grammes of the sample is mixed with 50 c.c. of ether (in a stoppered cylinder), the mixture being shaken at intervals during two hours; 25 c.c. (=1 gramme powder) of the clear ethereal solution is evaporated in a tared beaker and the residue weighed.

*Physiological Test.*—Two grammes of the sample is transferred to a beaker, a cockroach is then introduced, and the number of minutes which elapse before the insect becomes stupefied are noted.

The following table gives the results obtained with twelve samples of insect-powder:—

| Sample | Physiological Test | Ether-extract |
|--------|--------------------|---------------|
| 1      | 4 minutes          | 8.4           |
| 2      | 5 "                | 7.6           |
| 3      | 5 "                | 7.4           |
| 4      | 5 "                | 6.6           |
| 5      | 5 "                | 6.4           |
| 6      | 5 "                | 5.6           |
| 7      | 5 "                | 5.4           |
| 8      | 5 "                | 5.0           |
| 9      | 7 "                | 5.0           |
| 10     | 8 "                | 3.2           |
| 11     | 12 "               | 4.2           |
| 12     | 12 "               | 3.0           |

I think the above figures prove that the value of insect-powder as an insecticide is in proportion to the amount of ether-soluble matter present. Of course it is impossible to obtain exact results with the physiological test, because of the difference in size, health, &c., of the insects. In good samples of insect-powder the ether-extract varies between 5 and 9 per cent.

56 Hanover Street, Liverpool, May 27.

**CHANGE IN SWEDISH TARIFF.**—The Swedish Customs authorities have issued a regulation providing that all invoices for foreign goods imported into Sweden must be signed by the vendor immediately under the net amount of the invoice, and duly verified, otherwise the goods will not be passed through the Customs-house.

**DEATH IN A CHEMIST'S SHOP.**—A woman named Morgan, living at Gwauncacurwen, was being attended by an assistant in Mr. Hibbert's chemist's shop at Neath, on June 7, when she fell to the floor and expired immediately. The body was removed to the workhouse, where an inquest was subsequently held, when a verdict was returned of death from heart-disease.



## Correspondence.

*In writing letters for publication correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters, with or without a nom-de-plume, must be authenticated by the name and address of the writer.*

### Notice to Correspondents.

*Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.*

### Company Pharmacy.

SIR,—With your permission, I desire to add a word to the discussion which has been going on for some time in your columns with reference to the company-pharmacy question.

It seems to me that, as chemists, we have not yet fully realised our position on this all-important matter. We all desire reform, and we are convinced that legislation is necessary, but we are not agreed as to the extent of the legislation which ought to be demanded and which is likely to be obtained. We want protection alike for the public and the chemist, but we have not yet been able to formulate a scheme to commend itself to those disposed to aid us in the Houses of Parliament. The "suggestions" of the Council and the Bill of the Lord Chancellor have touched the antipodes of the question. The Council desire to restrict the sale and the compounding of medicines to the chemist—to prohibit unqualified companies from carrying on the business, even through qualified men. The Lord Chancellor, on the other hand, wishes to enable companies to carry on pharmacy by means of qualified men, and for the doing of which they are to become pharmaceutical chemists or chemists and druggists, and reap all the benefits and emoluments of such qualifications. Now, it is not likely that Parliament will give a monopoly to chemists on the one hand, or give away their well-earned titles on the other. It would be well for us to seriously consider our position, so that we may not only be able effectively to check bad Bills, but to formulate a good one which will, firstly, be for the safety of the public, and, secondly, for the advantage of the chemist. The Council's "suggestions" that all medicines be placed in the entire control of the retail chemists—however desirable this might be from our own point of view—is not likely to be realised. No member of Parliament would be insane enough to support such a general and far-reaching claim. What do the Council mean when they suggest such a monopoly? Is the chemist to have the sole right to sell every article named in the B.P.? If so, I do not think that even chemists would support such a demand. Let chemists say what they want, and then let the Council present to Parliament their reasonable demands in the form of a well-considered definitely-worded Bill.

I am, yours, &c.,  
W. S. GLASS.

193 Morningside Road,  
Edinburgh, June 6.

### A "Post Hoc" not a "Propter Hoc."

SIR,—Mr. Cowan may be putting the saddle on the wrong horse.

Is it not possible—even probable—that his "shield-trade" has dropped off very much because of the decline in vaccination during recent years, owing to the greater enlightenment of the people, who have not been slow to learn that this filthy, useless, and dangerous practice ought no longer to be tolerated?

I think the answer to this question must be in the affirmative, in spite of the operation of section 1, 1898 Vaccination Act, which orders domiciliary visits for the purpose of vaccinating, but which will eventually be rejected.

I am, Sir, yours truly,

W. T. MARTIN,  
Member P.A.T.A.

Lewes, June 2.

### Anti-cutting or Anti-vaccination?

SIR,—In your last issue you published, at the request of Mr. Cowan, a copy of a letter sent to me by him a few days before. The inference which it is evidently Mr. Cowan's

intention should be drawn from that letter is that his vaccination-shield business has suffered through his connection with the P.A.T.A. The shields were added to our list in September last. In November an order was received for a series of twelve monthly insertions of an advertisement relating to these shields. The first advertisement was published on December 15. Five days later Mr. Cowan wrote asking that his order should be cancelled, stating as his reason that his business had been so injuriously affected by the recent anti-vaccination legislation that his sales then would not justify further advertisements. I would not have referred to this fact if Mr. Cowan did not now attribute his diminished sales to connection with our Association.

Yours faithfully,

W. S. GLYN-JONES.

2 and 3 Stonecutter Street, E.C., June 8.

### Concerning Companies, the Medical Council, and the C. & D.

SIR,—The intelligent "comps" who put the C. & D. into type must be doubly careful about errors, for any slip they make is liable to be attended with grave consequences. Thus that august body, the General Medical Council, spent last week a considerable portion of their time inquiring into a "Doctor Bland Company," and vainly searched the register for that practitioner's name. Of course there is no such company, and never was; the error in the name was due to a typographical slip in the C. & D. But the strange part is that not merely the entire medical press, but a body invested with such autocratic jurisdiction as the General Medical Council, have been all content to take this information second-hand from the C. & D., error and all, and not one of them has acknowledged the source. A second misprint was "dry goods" for "druggists," and this also has been faithfully copied, proving, beyond doubt, that the medical press and the Medical Council are content to receive information, without corroboration or acknowledgment, from a paper which they are accustomed to stigmatise as a trade journal. Of course the proper name is "Doctor Bland (Limited)," but probably the Medical Council never heard of that gentleman, as he has gone to his reward for some considerable time. His name is probably no longer to be found on the register. I understand that, in view of the Medical Council's attitude in the matter, the couple of practitioners who were formerly connected with this company have sold their shares. The net result of the Council's interference is that unqualified persons may practise medicine and surgery in this company, but that qualified may not. It is doubtful if the Lord Chancellor's Bill will be retrospective, as this would introduce a precedent of far-reaching consequences. By the way, no less a person than the President of the Royal College of Surgeons in Ireland, together with a member of the Council and several unqualified men, appear in a late number of the *Gazette* as forming a limited company to control a hospital. If this conduct be professional, surely any number of unqualified practitioners, &c., may form a company to found a hospital for treating special disease, and appoint whom they will on the staff. There are few large cities in which an institution on these lines might not pay.

June 3.

Yours truly,

L.P.S.I. (29/7.)

### The Crisis.

SIR,—That "there is a tide in the affairs of men" is an axiom equally applicable to the affairs of a State or of a society. The tide now seems to have arisen in the affairs of pharmacy, and to have reached a crisis, and it will require the most astute diplomacy to "take it at the flood," for has not the Lord Chancellor declared himself on the side of company trading, to the detriment of the already depressed thousands who depend for their daily bread on unceasing toil, attended with anxieties and responsibilities altogether unknown to any other craftsmen? It appears to me, Sir, as the result of long experience and extended observation, that nothing short of a comprehensive system of legislation can avert the impending catastrophe. If Government can be induced to intervene it must be made obvious to that omnipotent body that the Exchequer would derive a benefit, otherwise than if begged of to make a concession for the benefit of a class. A large revenue accrues from the sale of

licences, from the highest professions to the lowliest of occupations which do not reach to the position of trades. All these are protected from the smallest encroachment on their rights. Now, although these, her Majesty's subjects, do not in the main exercise any dangerous calling, they feel safe under the protection of law. The anomaly exists that any number of this incongruous public are privileged to form a company, and, by subsidising some needy man with a modified qualification, to invade and destroy the legitimate inheritors of pharmacy whose labours have been directed to the advancement of pharmaceutical science. Why, then, in the name of justice, should such men be deprived of the protection accorded to the publican or the cabdriver?

I beg to suggest a conference of the most practical chemists and druggists to discuss this question, and to demand an answer, the subject to be published and advocated in the columns of the two representatives of pharmacy and the drug-trade which are "known and read of all men" throughout the civilised world.

Yours faithfully,  
PREMONITUS. (28/45.)

### Legal Queries.

26/3. *Inquirer*.—We think it is not impossible that your circular, if it should be successful in attracting business, might bring upon you a prosecution under the Dentists Act. It would be alleged that you have described yourself in such a way as to imply that you are a person specially qualified to practise dentistry. At the same time, we believe that the prosecution would fail if you were to ably defend it, and carry it, if necessary, to the High Court.

25/28. *S. H.*—There is no such thing as a licence for compounding medicines. You may not sell any medicine containing a poison unless qualified under the Pharmacy Act, and you require a medicine-licence before you can sell any compound medicine recommended for the relief or cure of any human complaints, or in which you claim a proprietary right.

27/12. *Boro.*—A wine-dealer's licence costs 10*l.* 10*s.* per annum, a wine-retailer's licence costs 2*l.* 10*s.* per annum. Neither entitles you to sell spirits. You will find particulars of the licences, and the statement of the conditions under which you may sell small quantities of pure spirit, on page 214 of the *DIARY*, 1899.

27/13. *X. Y. Z.*—The words on your label recommending the preparation for complaints incident to the human body render it liable to medicine-stamp duty. If those words were omitted, the article would not, in our opinion, be liable unless by some other printed or written notice you specifically recommended it, or intimated a proprietary right in it.

27/21. *Suffolk*.—It is imperative that the full title of a limited company—that is, including the word "limited"—should appear on every notice, advertisement, or other official paper, such as cheques, orders, invoices, promissory notes, &c.; and the manager, director, or officer of the company who neglects this formality renders himself personally liable to a penalty of 50*l.*, and also becomes responsible in regard to goods supplied on an order improperly signed.

27/70. *Rheum*.—You will find particulars of trade-mark registration in the *DIARY* for 1899, page 217. It is very likely your previous employers could successfully oppose the registration of the labels by you, and even if you got them registered it is not very likely under the circumstances that you would get an injunction against the present manufacturers. The commission question is more doubtful, and depends entirely on the exact contract entered into with you by the company. We do not think you have any claim; but you might place all your papers before a solicitor, and take his advice.

28/20. *Devon*.—We do not care to assist in the proceeding you intend to take without knowing whether there is good reason for it.

29/22. *Rook*.—Ammonium sulphocyanide is not regarded as a poison within the meaning of the Pharmacy Act.

26/27. *J. R.*—There is nothing that we know of in the Public Health Act that enables a ratepayer to demand to see the contracts entered into by the local authorities. The only chance of inspecting the contract would be to attend the audit and take objection to the accounts before the auditor pursuant to section 247 of the Public Health Act, 1875. You might write to the Local Government Board and set out the facts, and ask them to hold an inquiry, although we hardly think they would do so under the circumstances. The auditor has power to surcharge the authority if there is any irregularity, but it would be very unusual for him to take such a heroic course when the goods had been received and used.

29/35. *Commissionaire*.—A manager is engaged at specified wages per week and commission on all returns over a certain amount per annum. He terminates his engagement before the year is completed. Is he entitled to a *pro-rata* commission? [A great deal would, of course, turn on the strict wording of the document in question; but we should say that, under the circumstances, the manager would be entitled to *pro-rata* commission for the time in which he actually served. The case is not free from difficulty, but if the agreement had been properly drawn this contingency would necessarily have been provided for.]

30/27. *J. H. W.*—The unqualified partners in a firm who keep open shop for the sale of poisons are personally liable to a penalty under the 15th section of the Pharmacy Act. The labelling of poisons is a distinct matter. It is dealt with by the 17th section of the Act. The name on the label ought to be the trading name of the firm.

29/70. *Equitas*.—You have no legal claim for a holiday unless your engagement agreement stipulated that you should have it. The provision of a substitute in your absence would therefore be a matter to settle amicably between yourself and your employer.

### Miscellaneous Inquiries.

13/2. *W. O.*—The Metal-polishes which are now so popular are prepared by massing precipitated silica, or elutriated kieselsguhr, or the native products with heavy petroleum oil. A little cheap perfume may be added. There are several recipes in "Pharmaceutical Formulas."

16/52. *C. B.* (Calcutta).—The best preserving-liquid for fruits is a thin simple syrup as used in the process of canning fruit.

22/11. *J. H. S.*—Essence of Pear:—

|                               |          |
|-------------------------------|----------|
| Acetic ether ... ..           | 5 parts  |
| Amyl-acetic ether ... ..      | 2 parts  |
| Butyric ether... ..           | 1 part   |
| Glycerin ... ..               | 2 parts  |
| Alcohol (90-per-cent.) ... .. | 90 parts |

16/68. *Myrrh*.—Distinguishing-test between Cotton and Wool.—See *C. & D.*, January 14, 1899, page 73.

17/50. *Spes*.—We do not know an intensifier that goes by the name of Lumière's.

159/14. *Celerina*.—Our rule is not to analyse and publish formulas of proprietary medicines.

14/57. *Cascara*.—Cream-preservative:—

|                       |         |
|-----------------------|---------|
| Boric acid ... ..     | 5iv.    |
| Sugar ... ..          | 5iv.    |
| Bismarck brown ... .. | a trace |

Mix.

One teaspoonful of this powder is dissolved in each pint of cream.

22/7. *J. O. K.*—There is no such book as Inch's or Ince's "Art of Pharmacy" published. You will find in *THE CHEMISTS' AND DRUGGISTS' DIARY*, 1898, a treatise so en-



titled. If you read that and the "Art of Dispensing," you will obtain all the information that you desire.

81/22. *Chris.*—Gripe-draught for Horse, like your sample:—

|                         |     |                    |
|-------------------------|-----|--------------------|
| Powdered cayenne ...    | ... | 15 gr.             |
| Powdered ginger ...     | ... | 2 dr.              |
| Tincture of opium ...   | ... | 1 oz.              |
| Spirit of turpentine... | ... | 2 oz.              |
| Linseed oil to make     | ... | $\frac{1}{2}$ pint |

Mix.

252/22. *Collins.*—Curb and Spavin Application—Your sample is a cantharides one, probably made by first mixing 1 oz. of powdered cantharides with 1 oz. of ether for a day in a covered vessel and then macerating with 8 oz. rectified spirit and adding  $\frac{1}{2}$  oz. oil of thyme.

248/66. *Tenax.*—The samples of sachet-powder you send are not out of the ordinary. Past volumes of THE CHEMIST AND DRUGGIST or "Pharmaceutical Formulas" will furnish you with numbers of excellent recipes which space does not allow of us reprinting

6/54. *Tyers.*—(1) Dry-shampoo Wash:—

|                          |     |       |
|--------------------------|-----|-------|
| Alcoholic ammonia ...    | ... | 3ss.  |
| Tincture of quillaia ... | ... | 3ss.  |
| Ess. bouquet ...         | ... | 3ij.  |
| Rectified spirit ...     | ... | 3vij. |

Mix.

Rub a little well into the hair, then sprinkle on a further supply, and rub dry with a soft towel.

(2) The Cantharidial Collodion used by dentists is a diluted form of the official article, but the exact dilution we do not know.

14/3. *Neura.*—Your Neuralgia-mixture would be better if modified as follows:—

|                     |     |         |
|---------------------|-----|---------|
| Quin. sulph. ...    | ... | gr. xl. |
| Ac. sulph. dil. ... | ... | 3j.     |
| Ammon. chlor. ...   | ... | 3vj.    |
| Ammon. bromidi ...  | ... | 3ij.    |
| Tr. gelsemii ...    | ... | 3ij.    |
| Tr. card. co. ...   | ... | 3iss.   |
| Syrupi ...          | ... | 3ij.    |
| Aq. chlorof. ad ... | ... | 3xx.    |

One tablespoonful to be taken in water every three or four hours till relieved, then three times a day as a tonic.

7/21. *Almosute.*—The results which you have obtained with the hair-dyes are so exceptional that we should like to know more about the conditions before we advise. All silver dyes, after application to the hair, gradually become varicoloured.

22/17. *G. P. G.*—You will find the sellers of tobacco-powder by referring to the Buyers' Guide in the DIARY. Tobacco-powder is obtainable duty-free for use as blight-powder if mixed with certain other ingredients (see THE CHEMISTS' AND DRUGGISTS' DIARY, 1898, page 255).

19/73. *Nemo.*—The Powder for Scour in Cattle is a mixture of prepared chalk and powdered oak-bark. The proportions are about two of chalk to one of oak-bark.

13/51. *Bennet.*—The Rat-bait is a mixture of arsenic and coarse oatmeal. We cannot now detect any odour in it, but if you wish to make it more attractive to the rodents a little oil of anise may be added.

### Information Wanted.

The Editor will be obliged for replies to the following from any who can furnish the information.

24/24. What is "Dawric"? It is ordered in a recipe for silver-plating along with silver chloride, sodium chloride, and potassium bitartrate.

28/12. Address of the Mullein Manufacturing Company, late of Clapham, S.W.

27/55. What is "Nip-bone," used in Westmoreland for rheumatism.

### London Drug Statistics.

THE following statistics are compiled from information supplied by public warehouses. They relate to the receipts and deliveries of some of the leading drugs from and into the London public warehouses from January 1 to May 31, 1899, and to the stocks on May 31. Their accuracy cannot be guaranteed.

|                       | March  |         | Stocks  |        | 1899    |         |
|-----------------------|--------|---------|---------|--------|---------|---------|
|                       | Landed | Delivd. | 1899    | 1898   | Imprtd. | Delivd. |
| Aloes ..... cs &c.    | 13     | 180     | 2,322   | 2,513  | 444     | 885     |
| " ..... gounds        | 1,525  | 944     | 1,025   | 2,199  | 2,269   | 2,964   |
| Anise, star .... cs   | 20     | 33      | 77      | 36     | 258     | 186     |
| Balsam ..... csks &c. | 317    | 84      | 997     | 428    | 1,118   | 466     |
| Calumba-root .. bgs   | 71     | 268     | 476     | 483    | 485     | 545     |
| Camphor ..... pkgs    | 1,548  | 1,524   | 4,328   | 9,908  | 3,331   | 3,907   |
| Cardamoms .. cs &c.   | 605    | 481     | 2,315   | 1,517  | 2,827   | 1,771   |
| Oinchona ..... pkgs   | 1,649  | 2,416   | 16,449  | 20,218 | 7,804   | 11,346  |
| Onbebs ..... bgs      | —      | 13      | 1,867   | 1,883  | 127     | 103     |
| Dragon's-blood .. cs  | 10     | 33      | 40      | 30     | 89      | 90      |
| Galls ..... pkgs      | 1,117  | 1,146   | 3,604   | 4,505  | 3,558   | 2,935   |
| Gums—                 |        |         |         |        |         |         |
| Arabic ..... "        | 1,099  | 2,005   | 11,560  | 9,549  | 7,348   | 8,721   |
| Ammoniacum .. "       | —      | 11      | 88      | 34     | —       | 20      |
| Animi & copal .. "    | 2,004  | 3,569   | 15,316  | 19,573 | 18,604  | 17,565  |
| Asafetida .. "        | —      | 7       | 638     | 507    | 844     | 496     |
| Benzoin ..... "       | 133    | 187     | 1,274   | 2,622  | 471     | 1,341   |
| Oamar ..... "         | 716    | 465     | 3,504   | 3,711  | 2,548   | 1,176   |
| Galbanum .. "         | —      | 1       | 18      | —      | —       | 12      |
| Gamboge .... "        | —      | 18      | 272     | 255    | 13      | 134     |
| Quaiage .... "        | 6      | 30      | 37      | 68     | 37      | 58      |
| Kauri ..... tons      | 492    | 286     | 1,340   | 568    | 2,270   | 1,542   |
| Kino ..... pkgs       | 13     | 31      | 103     | 41     | 82      | 42      |
| Mastic ..... "        | —      | 8       | 17      | 26     | 10      | 23      |
| Myrrh ..... "         | 6      | 24      | 349     | 457    | 81      | 170     |
| Olibanum .. "         | 285    | 440     | 3,142   | 3,213  | 2,963   | 3,166   |
| Sandarac .... "       | 133    | 132     | 742     | 941    | 556     | 555     |
| Tragacanth .. "       | 1,294  | 1,146   | 1,050   | 3,142  | 4,088   | 3,923   |
| Ipecacuanha, Rio bls  | —      | 39      | 42      | 161    | 140     | 266     |
| " other kinds pkgs    | 18     | 16      | 21      | 104    | 154     | 158     |
| Jalap ..... bls       | —      | 38      | 231     | 296    | 35      | 107     |
| Nux vomica .. pkgs    | 216    | 421     | 523     | 139    | 1,121   | 734     |
| Oils—                 |        |         |         |        |         |         |
| *Anise ..... cs       | —      | 50      | 212     | 112    | —       | 125     |
| *Cassia ..... "       | —      | 1       | 70      | 105    | 29      | 6       |
| Cocao-nut .. tons     | 113    | 121     | 153     | 232    | 455     | 474     |
| Olive ..... csks, &c. | 421    | 242     | 974     | 1,035  | 1,312   | 896     |
| Palm ..... tons       | 11     | 3       | 14      | 8      | 23      | 16      |
| †Quinine sulph. lbs   | 20,160 | 5,438   | 157,683 | 97,283 | 68,401  | 22,967  |
| Rhubarb ..... chts    | 112    | 120     | 1,351   | 514    | 349     | 645     |
| Sarsaparilla .. bales | 79     | 147     | 374     | 328    | 487     | 479     |
| Senna ..... bls &c.   | 62     | 279     | 398     | 634    | 787     | 1,610   |
| Shellac, all kinds cs | 5,798  | 4,278   | 47,836  | 57,229 | 19,699  | 20,881  |
| Turmeric ..... tons   | 2      | 7       | 58      | 127    | 6       | 56      |
| Wax, bees' ..... pkgs | 323    | 212     | 608     | 375    | 726     | 1,063   |
| " Japan .. cs &c.     | 53     | 35      | 463     | 494    | 435     | 345     |

\* Stocks of aniseed and cassia oils lying at Smith's Wharf and Brewer's Quay are not included in this return.

† Includes the quantity at Red Lion, Bull, and Smith's Wharves; also the Dock's.

It will be observed from the above table that the delivery of aloes in gounds was exceptionally heavy last month, while the stock is the lowest at this time of the year for six years, and the same remark applies to the stock of aloes in cases. The cardamom-imports still continue to increase, and the stock is heavy. The stock of dragon's-blood is moderate, but consists mostly of poor and medium quality. Fair deliveries of benzoin are recorded, but slightly less than last month; importations, however, to date show a big decrease, while the stock is only about half that of the previous six years at this time. The stock of Rio ipecacuanha is 30 bales less than last month, and the deliveries have decreased by 25 packages. The stock of Cartagena is, we think, about the lowest on record, 21 packages only. The stock of nux vomica has been reduced by 205 packages, while the stock of quinine sulphate has risen enormously, being 14,722 lbs. more than in May; it is the best stock since 1895. The deliveries for the month show a decrease of 2,756 lbs., while the landings increased by 720 lbs. The deliveries of bark have been less, while the stock has been reduced by 767 packages; it is the lowest for the past six years. The stock of rhubarb remains stationary, but the deliveries have only declined by 3 chests—viz., 120, against 123 in April.

CHEMICALS to the value of 229,051*l.* were exported from Bordeaux in 1898, as compared with 229,727*l.* in 1897. Of this amount the United Kingdom took 129,920*l.* in 1898, and 119,118*l.* in 1897. Included in the above were glycerin 1,996 cwt., raw tartar 13,062 cwt., tartar crystals 3,526 cwt., cream of tartar 32,303 cwt., and oxide of zinc 2,508 cwt.

## Trade Report.

The prices quoted below are the bottom prices obtained for bulk quantities by importers and manufacturers, who do not supply retailers. They are in many cases exclusive of various charges.

42 Cannon Street, London, E.C.: June 8.

THE heat seems to be killing business. There is nothing startling to report this week, except that the drug sales of to-day comprised one-and-twenty catalogues. The principal changes of the week are as undernoted:—

| Higher       | Firmer         | Easier          | Lower           |
|--------------|----------------|-----------------|-----------------|
| Canary-seed  | Acid, carbolic | Ammonia sul-    | Balsam tolu     |
| Ipecacuanha  | Acid, citric   | phate           | Benzols         |
| Jalap        | Acid, tartaric | Camphor         | Cannabis        |
| Oil, linseed | Cocoa-butter   | (crude)         | Indica          |
| Pepper       | Glycerin       | (Chillies)      | Cassia lignea   |
| Quicksilver  | Oil, castor    | Cinchona        | Menthol         |
| Quince-seed  | Oil, cod-liver | Colocynthis     | Oil, cubebs     |
| Senna        | Oil, pepper-   | Copper sul-     | Oil, sandal-    |
| Vanilla      | mint HGH       | phate           | wood            |
|              | Oil, turpen-   | Ginger          | Wax, bees (Jam. |
|              | tine           | (Cochin)        | and Zanzibar)   |
|              | Opium          | Oil, citronella |                 |
|              |                | Quinine         |                 |

The following are the principal arrivals of drugs from June 1 to 7, both inclusive:—

Acetone, 48; araca-nuts, 25; benzoin, 64; buchu, 3; bird-lime (Jap.), 200; calumba (from Hamburg), 116; cardamoms, 144; camphor (Jap.), 216; castor oil (E.L.), 946; (French), 735; cinchona, 29; (Java), 70; (Ceylon), 40; citronella oil, 35; cod-liver oil, 161; coriander-seed, 166; cumin-seed (Maltese), 20; dragon's-blood, 7; galls (Smyrna), 58; (Persian), 3,057; gentian, 8; gum ammoniacum, 26; gum arabic (Aden), 282; (E.L.), 126; gum olibanum, 481; gum myrrh, 10; gum gamboge, 24; honey, 87; (Jam.), 28; (Aust.), 24; lemon-juice (conc.), 355; lime citrate, 92; liquorice-root (Pers.), 810; musk, 3; nux vomica, 1,174; opium, 27; quicksilver, 1,004; quinine, 207 (cases); saffron, 2; sandalwood-chips, 800; senna (Alex.), 19; tamarinds (W.I.), 143; (E.L.), 145; turmeric (Cochin), 48; (E.L.), 738; wax, bees, 365; wax, Japan, 300.

## Heavy Chemicals.

[These prices are for market-centres other than London.]

Since our last report the principal alteration has been in sulphate of ammonia, which has declined considerably, and is weaker. Benzols also are lower. Demand for export keeps good, and miscellaneous products amongst the various consumptive trades meet with good inquiry. Dyers and calico-printers are well supplied with orders, and keep steadily engaged. Finishers are fairly busy. Many glass-makers are busier than usual at this period. In the soap-trade makers have nothing to complain of, industrial qualities of soap particularly being in good and steady request. The colour and paint trades are very busy, and there seems every likelihood of the season being a specially good one.

ALUMINA PRODUCTS.—Unchanged and firm, with a fair business. Crystal alum has lately been in better demand; loose lump is quoted 4*l.* 12*s.* 6*d.* to 4*l.* 15*s.*; lump in tierces, 4*l.* 17*s.* 6*d.* to 5*l.*; and ground, 5*l.* 5*s.* to 5*l.* 10*s.* Best makes of pure white sulphate of alumina, 7*s.* 9*d.* to 8*s.* 9*d.* per ton, in usual casks, on rails, with general allowances for other packages or loose slabs. Aluminous cake, 45*s.* to 50*s.* per ton. Alumino-ferrie in good demand, at 42*s.* 6*d.* to 45*s.* per ton. Hydrate of alumina is steady, high strength unchanged, at 11*l.* 15*s.* to 12*s.* 5*s.*, in casks, on rails. Bauxite, 60-per-cent. alumina, 16*s.* 3*d.* to 16*s.* 9*d.*, f.o.b. Alminate of soda, highest strength Al<sub>2</sub>O<sub>3</sub>, moving steadily, 37*s.* 6*d.* to 38*s.* 6*d.* per cwt. Carbonate of alumina is quiet, at 37*s.* 6*d.* per cwt., and chloride of aluminium, 9*l.* 15*s.* to 10*l.* 5*s.* per ton, free on rails, in casks.

BENZOLS.—Lower; 90 per cent., 6*d.* to 7*d.*, and 50 per cent., 7*d.*

SULPHATE OF AMMONIA.—Present quotations are about as follows:—Beckton and Beckton terms, 12*l.* 7*s.* 6*d.* to 12*l.* 10*s.*; Leith, 12*l.* 10*s.*; Hull, 12*l.* 7*s.* 6*d.*; and London, 12*l.* to 12*l.* 5*s.*

BARIUM PRODUCTS are in fair request. Chloride, best refined crystals, are somewhat easier, but so far unchanged, at 6*l.* 15*s.* per ton, free on rails, in bags, and 6*l.* 17*s.* 6*d.*, f.o.b. Blanc fixe (precipitated sulphate of barium, in paste), 6*l.* 15*s.*, f.o.r. Hydrate of baryta, purest crystals, 12*l.* to 13*l.* per ton. Sulphide of barium in heavier demand, at 5*l.* 10*s.*, in casks.

## Liverpool Drug-market

Liverpool, June 7

CASTOR OIL.—Easier, owing to the arrival of 796 casks of good seconds Calcutta, and 2*d.* per lb. has been the price asked from the quay. Holders seem generally firm at this figure. First-pressure French is held for 2*d.*, with a fair demand. A good line of second-pressure French has sold at 2*d.* per lb.

KOLA-NUTS.—Twelve bags fair sold from the quay at 1*d.* per lb.

CAPSICUMS (NIGER).—Firmly held at 33*s.* 9*d.* to 35*s.* per cwt. for fine bright reds, and sales are reported at the former figure. Dull reds can be had at about 30*s.* per cwt. Sierra Leone held for 45*s.* per cwt. bright reds.

HONEY (CALIFORNIAN).—Liquid has sold at 40*s.* per cwt. Values are in favour of the sellers, in consequence of the strong reports from the producing districts.

COPAIBA.—Considerable business is understood to have passed in Maranhão during the week, but the price paid has not transpired.

CASCARA SAGRADA.—About 20 bales water-damaged were offered at auction, but did not sell.

CANARY-SEED is still moving upwards, several parcels have been withdrawn from the market, and sales are reported up to 31*s.* per quarter, while importers will not offer to arrive, in view of the reports of drought in Turkey.

BEESWAX.—Ten sacks Chilean, just landed, sold at 7*l.* 2*s.* 6*d.* to 7*l.* 7*s.* 6*d.* per cwt.

GINGER (AFRICAN) is steadier; 10 tons sold at 18*s.* per cwt.

GRAINS OF PARADISE.—Holders talk of 60*s.* for the remaining stock here.

CALABAR BEANS.—A parcel of about 5 cwt. was sold at 2*d.* per lb.

WORMWOOD, YARROW, AND AGURMONY.—A small sensation was created by a very large quantity of these drugs being offered at auction; the effect produced was in the direction of merriment. No bids were elicited.

FENUGREEK-SEEDS.—Steady at late rates, but are getting into narrower compass, owing to the strong reports from Egypt.

## German Market

Hamburg, June 5

Our drug-market is quiet. Prices in general have changed very little since last week.

CITRIC ACID continues to advance, to-day's quotation being 305*m.* per 100 kilos.

CAMPOR, REFINED.—Little business; manufacturers unchanged, 370*m.*; second-hand, 342*m.* per 100 kilos.

IPECACUANHA.—Unchanged. Rio, not offering; Cartagena, 193*m.* per kilo.

MENTHOL is firm and dearer, at 15*m.* per kilo.

QUININE.—Neglected in second hand, at 46*m.*

OIL OF TURPENTINE.—Very firm; spot very scarce. American, 69*m.*, French 68*m.* per 100 kilos., delivered here.

WAX.—Japan is quiet, 59*m.* to 58*m.* per 100 kilos. Carnauba unchanged, but firm.

WORMSEED is firm, good quality scarce, at 44*m.* per 100 kilos.

OILS.—Cod-liver is steady, non-congealing oil at 58*m.* per barrel. Castor quiet, and slow of sale; first-pressing, in barrels, spot, 50*m.*; forward, 50*m.* per 100 kilos. Peppermint, 116*ll.* unchanged, 4-65*m.* per lb. Japanese firm, at 7*m.* per kilo.

## Cablegrams.

AMSTERDAM, June 8, 4.35 P.M.:—Of the 5,456 packages offered for sale 5,084 sold at an average unit of 8.25*c.* per half-kilo, as compared with 8.50*c.* in May. The following were the approximate quantities purchased:—American and English factories, who purchased the equivalent of 5,817 kilos.; the Brunswick factory, 3,921 kilos.; the Mannheim and Amsterdam factories, 5,529 kilos.; the Frankfurt-on-Main and Stuttgart factories, 3,557 kilos.; and various buyers, 3,547 kilos. The prices paid for the manufacturing-bark ranged from 7*c.* to 7*d.* 3/4*c.* per half-kilo, and for druggists', from 11*c.* to 61*c.* per half-kilo. The tone is easier.

HAMBURG, June 8, 2.48 P.M.: This market is very quiet, and there is no alteration in any staples. Camphor is unchanged, and quinine quiet.



NEW YORK, June 8, 3.4 P.M.—Quiet market. Opium is firmer in consequence of advices from Turkey, and \$2.85 is the price. Cinchonidine remains at 25c. per oz., and holders look for a higher price soon. Jalap is very firm at 11c. per lb. Curacao aloes is easier at 3c., and buchu is in large supply at 12c. There has been a good business done in Mexican sarsaparilla, the closing price being 11c. Oil of citronella is easy at 23c. per lb. New crop Bermuda arrowroot is arriving, and sales of the better brands have been made at 42c. per lb.

SMYRNA, June 7, 12.25 P.M.:—\*Opium\* remains very firm, with continued purchases at 7s. 8d. to 8s. per lb., f.o.b., for manufacturing. Buying is still going on in the interior, where the natives are paying higher prices.

BERGEN, June 8, 12.20 P.M.—The Finmarken cod-fishing is proceeding slowly, the catch bringing the total to date up to 30,521,000 fish, against 34,979,000 last year, which will yield 27,900 barrels of crude oil, against 20,869. Holders now ask 57s. per barrel for medicinal oil, f.o.b. Bergen, but even at this slightly easier rate there have been no sales.

### London Markets.

ACETANILIDE.—Weak at the convention rates, as there is cut-rate selling at 10½d. to 10¾d. per lb., cwt. lots.

ACETONE.—Business has been done this week at 57l. per ton landed.

ACID, CITRIC.—A good business has been done this week, and on Wednesday makers declined to sell at 1s. 6d. per lb. Secondhand lots at 1s. 5½d. are still obtainable.

Our Messina correspondent, writing on June 1, informs us that it has now transpired that the stocks of concentrated lemon-juice and citrate of lime are far from being small, the estimate being about 1,000 pipes of juice, and 150 to 200 tons of citrate of lime. Perhaps these quantities would be sufficient to give buyers the hope of a reduction in price shortly, but the key to the position is that the stocks are all in the hands of one person, who at present shows no sign of giving way. If the stocks were equally distributed throughout the island, a reduction might reasonably be expected. Juice is still tending higher, and this week 20l. to 21l. per pipe, c.i.f. London, has been paid.

ACID, TARTARIC.—Very firm and in good demand, at 1s. per lb. for foreign and 1s. 1d. for English crystals.

ALCOHOL.—German potato-spirit is easier for future delivery, as the demand for Japan has slackened and is not expected to increase. Stock is now coming forward, and the scarcity here and in Hamburg has been relieved.

ARROWROOT steady. Good St. Vincent sold at auction on Wednesday at 4¼d. to 4½d. per lb. in barrels, and at 4¾d. in cases.

BELLADONNA-ROOT maintains its recent firmness, good root being quoted at 39s. to 40s. per cwt., spot. The English crop of belladonna-herb looks encouraging at present.

COCAINE.—The London agent of a leading manufacturer declines to quote, and submits offers to his principals, owing to shortage in the supply of raw materials. High prices "are coming yet." It is reported from Hamburg that the stock of crude there is under 100 kilos. Hydrochloride is quoted at 400m. per kilo, but in second hands there are a few cheaper offers.

COCOA-BUTTER.—In auction at Amsterdam, on June 6, 70 tons Van Houten sold at 73½c. to 77c., 3½ tons Helm at 74½c. to 75½c., 3 tons Hamer at 75½c., and 10 tons Suchard at 75c. per half-kilo. In London, on the same day, 65 tons Cadbury's brand sold at 1s. 2½d. to 1s. 2¾d. (average 1s. 2¾d., against 1s. 2½d. in March).

COPPER SULPHATE.—Owing to poor demand, outside holds offer ordinary brands, on the spot, at 25l. per ton, which is below syndicate rates.

COUMARIN.—French makes are out of it just now, and for German 2s. per oz. is wanted.

GALLS.—Firm, with small sales of blue Persian at 65s. per cwt., and green at 57s. 6d.; buyers are shy of the continued high prices. Chinese are quiet, with sellers at 58s.,

c.i.f. Large arrivals of Persian have come to hand this week; but it is understood that the greater portion has been bought for the Continent, and that the supply is well concentrated. In auction a parcel of damaged Turkey sold, without reserve, at 46s. to 61s. per cwt.

GLYCERIN.—Firm. A fair amount of business has been done this week, at 47s. to 48s. per cwt. for s.g. 1.260.

In the drug-auction to-day a parcel of 65 drums "pure glycerine," described as "British manufacture, doubly-distilled, chemically-pure, B.P. test, sp. gr. 1.260," was offered "with out reserve for account of whom it may concern." The fact that the glycerin is lying at Salford Dock warehouses gave rise to the impression that it was Thom's manufacture, but Messrs. David Thom, Domeier & Co. (Limited) inform us that the glycerin was not their make, and they had nothing whatever to do with it. Samples were not obtainable until late on Wednesday, and then the glycerin was found not to be water-white, while it had a slightly alliaceous after-taste. However, when the selling broker reached the parcel (which amounted to 32½ tons), he stated that the samples were withdrawn. One of the room protested that the quality of the article could not be judged, whereupon the broker stated that he would sell the stuff to the highest bidder, and any dispute which might arise as to the specification and guarantee would be settled by Dr. Norman Tate. The sale proceeded, and the whole parcel was purchased by one bidder at from 37l. to 39l., the anxiety of the buyer to get the stuff causing some mirth.

GOLDEN SEAL.—The New York market is unsettled, values being irregular, some holders quoting 60c., others 62c. and 63c. Spring dog root is offered here at 2s. 6¾d. per lb. c.i.f.

GUM TRAGACANTH.—Persian kinds have been quiet this week after the recent activity, but although the gum has been coming forward freely the deliveries keep pace with arrivals, so that the position is none the less firm. The stock of Bussorah hog gum is very small, and in one quarter a retail sale has been made at 40s. to 50s. per cwt. In auction 5l. 2s. 6d. was paid for a small lot of common, and 25s. for sea-damaged.

HENBANE.—The English crop is looking wretched, and the yield will scarcely be more than last year's.

MORPHINE.—Manufacturers are quite full up with orders, and, as the demand is exceptionally good, business is being daily turned away—even at 5s. 6d. per oz. for hydrochloride cubes and 5s. 4d. for powder.

OIL, COD-LIVER.—Quiet, at 56s. per barrel, c.i.f.

BERGEN, June 3.—Continuing my telegram of last week, I have again to report an advancing market. Sellers are now very firm, and hold out for 58s. per barrel, which price, however, has not been paid. My personal opinion is that prices have now reached their highest point, and will not advance further this season. The exports from Bergen to date are 4,978 barrels, as against 3,730 last year.

OIL, CUBEBS.—Slightly easier, at 3s. 9d. per lb. for English distilled oil.

OIL, LAVENDER.—Genuine French oil is offered at 7s. 6d. per lb., spot. The English lavender-crop is looking well.

OIL, LEMON.—Excellent business is passing at unchanged rates, which, in fact, applies to most essential oils.

OIL, ORANGE.—Again firmer, several agents having received instructions from Messina to quote 6s. to 6s. 2d. per lb., c.i.f. There is no business here to speak of, buyers being unwilling to pay the higher figures.

OIL, SANDALWOOD.—English distilled is slightly easier, there being offers at 11s. 6d. per lb. in quantity.

OPIUM.—A fair business has been done recently in Turkey soft-shipping at slightly higher prices, and in manufacturing kinds at recent rates. Good to fine soft-shipping is worth 9s. to 10s. 9d. per lb.; seconds, 8s. 3d. to 8s. 9d.; good to fine Smyrna druggists', 8s. to 8s. 6d.; and seconds ditto, 7s. 3d. to 7s. 9d. per lb., spot. The market for soft-shipping this week is quiet and practically unchanged; the business has been confined to a few sales of manufacturing descriptions. Holders of Persian remain very firm at 11s. 3d. per lb. for fine, while for medium grades full rates are wanted.

SMYRNA, May 27.—Since our last advices the market has been very quiet, sellers keeping firm and turning a deaf ear to all demands at the former price of 7s. 6d. to 8s. A buyer, therefore, who had an order for five cases Karahissar tale quale to fulfil was obliged to pay 2d. per lb. extra—viz., 7s. 8d.—to secure the quantity required. Most of our holders are also now buying new opium in the growing districts, therefore it is to their interests to

help the decline in prices of the old drug, so as to replenish their stock with new at cheaper rates. The arrivals of opium since June 8 amount to 1,329 cases, as against 3,509 at the same period last year. Since writing the foregoing a large buyer has secured 10 cases Karahissar tale quale at 7s. 6d., but before completing his purchases another party paid for similar quality 1d. per lb. more, thus again preventing the establishment of former prices. This proceeding on the part of our interested holder (who besides having a large stock in America unsold has also a large quantity of the drug here) clearly shows that he, as well as others who are more or less in the same position, will do their best to stop any material decline in prices later on, and as everyone expects opium to go below 7s., we may not even see values decline to 7s. 3d.

CONSTANTINOPLE, June 2.—A quiet market here, but fairly active in Smyrna, where 80 cases were sold yesterday to native speculators and buyers for London and American account at 7s. 6d. per lb., f.o.b. Stocks in this part of the world being so small, there is not much chance of decline between this and arrival of new crop, and even then it is questionable if values will permanently remain much below to-day's parity. Prospects for new crop are favourable for a yield of about 8,000 cases.

OTO OF ROSE—A telegram reached London yesterday from Bulgaria to the agent for a house there saying, "Stop selling; going up." The present price of fine brands in London is 22s. to 24s. per oz.

PHENACETIN is selling to large buyers at 3s. 2½d. per lb.

PODOPHYLLUM-ROOT.—Lower prices may be expected, as the New York market is overstocked, and the new crop is expected shortly.

POTASH-SALTS.—Montreal potashes are very firm, at 23s. 6d. for firsts and 22s. 6d. per cwt. for seconds. Pearlashes, 31s.

QUICKSILVER was advanced 2s. 6d. per bottle yesterday, the price now being 8l. 5s., and 8l. 4s. 6d. in second bands.

QUININE is quiet, and, in consequence, easier. Spot transactions include B. & S. or Brunswick at 1s. 4½d. to 1s. 5d.; August delivery, 1s. 4½d. to 1s. 5d.; June delivery, at 1s. 4½d. per oz.; and spot, 1s. 4½d., with buyers at 1s. 4d. French can be had at 1s. 4d. In auction two cases Zimmer, containing ten tins each of 100 oz., were bought in at 1s. 4½d. per oz.

SAFFRON.—Business has been done at 43s per lb. in one quarter, but holders maintain there is no more to be had at this figure. Stocks in London are now very low.

SEEDS.—Continued drought in Turkey has further raised the price of *Canary-seed*. Not only are there no offers for arrival, but, on the contrary, importers are buying here in the expectation of serious damage to the crop. Consumers have been apathetic, and in some cases have parted with their stocks to speculators, but they are now beginning to buy. The present supply is sufficient for trade purposes, but there is not enough for speculators as well. The future course of prices depends upon the news from Turkey during the next few days. Ordinary Barbary and Turkish have been sold at 29s. 6d. to 30s. per qr. *Coriander* quiet, at 7s. per cwt. *Fenugreek* slow, at 7s. to 7s. 3d. per cwt. Dutch *Caraways* have sold at 23s per cwt. *Cumin* firm, at 24s per cwt. for Mogador, and at 26s. to 29s. for Malta.

SPICES.—Public sales were resumed on Wednesday, and were rather heavy. *Cochin Ginger* was easier; for bold-cut, 65s. per cwt. was refused, medium sold at 42s., good small-cut sold at 28s. to 30s.; native-cut and partly-cut and scraped sold at 55s. to 61s. for bold, at 39s. to 40s. 6d. for medium, and 25s. 6d. to 26s. 6d. for small; ordinary washed rough partly sold at 21s., small rough at 17s. 6d. to 18s., and cuttings at 15s. 6d. per cwt. Bengal and Japan were both bought in at 20s. per cwt. The large quantity of Jamaica offered was mostly sold at steady to rather dearer prices. Zanzibar *Cloves* are again lower; the parcels at auction were bought in at 3½d. per lb.; for delivery the quotation is 3½d. for near, and 3½d. for October–December. Fine Penang were bought in at 1½d., and good at 8d. per lb. *Clove-stems* withdrawn at 1½d. per lb. *Chillies* easier, fine red Japan sold at 33s. to 34s. per cwt., fair African at 42s. to 43s., fine being bought in at 48s.; dull red Zanzibar sold at 32s. per cwt. Natal *Capsicums* were bought in, but common to good red Zanzibar on stalk sold at 27s. to 31s. per cwt. *Pimento* met with no demand, and was bought in at 4d. per lb. *Nutmegs* and *Mace* quiet and un-

changed. *Cinnamon-chips* were withdrawn at 3d. to 5½d. per lb. for common to fine. *Cassia-lignea* lower; old import was bought in at 52s., but recent import of fair quality sold at 39s. to 41s. per cwt.; broken bought in at 33s. to 37s. 6d. per cwt. *Pepper* firm, and again dearer for white. Good heavy Aleppy black sold at 5½d. per lb., and fine bold Mangalore at 8½d. to 8¾d. per lb., Tellicherry being bought in at 5½d. Singapore black sells at 5½d. per lb. on the spot, and at 5½d. for distant shipment. Singapore white partly sold at 9d. per lb. for good bold. For fair, 8¾d. is asked, and to arrive 8¾d. to 9d. per lb., according to position. Penang white is quoted 8d. to 8½d. on the spot, and at 8½d. to 8¾d. for shipment.

SULPHONAL has sold in second hands at 13s. 6d. per lb.

WAX, BEES'.—In plentiful supply in auction owing to recent large arrivals from Hamburg. Buyers are not disposed to pay the high rates still asked, and only Jamaican sold quite freely. The prices obtained were for pale yellow Australian 7l. per cwt., Jamaica good hard 7l. 2s. 6d. to 7l. 7s. 6d. according to colour, other West Indian 6l. 15s., dark Madagascar 5l. 10s. to 6l. 5s. Zanzibar rather mixed in colour and purity 5l. 12s. 6d. to 5l. 15s.; better qualities 6l. to 6l. 5s.

WAX, CARNAUBA.—Quiet. Transactions in Liverpool include ordinary to good fair Parahyba and Maranham grey at 42s. to 43s. 6d. per cwt., and a few lots of low to good medium at 44s. 6d. to 57s. 6d. per cwt.

### Drug-auctions in London.

To-day twenty-one brokers offered goods by auction, and vanillas were taken first, so that the sales were not completed until 4.30 P.M. The following is a tabular statement of the goods offered and sold publicly. The numbers refer to original packages:—

| Offered              |     | Sold | Offered                |     | Sold |
|----------------------|-----|------|------------------------|-----|------|
| Aconite, Jap.....    | 8   | 3    | Gum ammoniacum         | 20  | 0    |
| Albumen .....        | 3   | 3    | arabic.....            | 81  | 5    |
| Aloes, Cape .....    | 18  | 4    | asafetida .....        | 181 | 125  |
| Socotrine .....      | 82  | 0    | elemi .....            | 5   | 0    |
| Zanzibar .....       | 13  | 13   | galbanum .....         | 16  | 0    |
| Ambergris.....       | 4   | 0    | gamboge .....          | 46  | 12   |
| Annatto-seed .....   | 61  | 5    | guaiaicum .....        | 28  | 5    |
| Antimony .....       | 50  | 0    | kino .....             | 28  | 1    |
| Ant's eggs.....      | 2   | 0    | mastic .....           | 18  | 2    |
| Araroba .....        | 27  | 0    | myrrh.....             | 46  | 0    |
| Area nut .....       | 14  | 4    | sandarac .....         | 16  | 0    |
| Argol .....          | 12  | 11   | tragacanth .....       | 9   | 3    |
| Asphaltum .....      | 48  | 0    | Honey, Australian      | 89  | 9    |
| Balsam, Canada ..    | 6   | 0    | Californian .....      | 40  | 0    |
| Copaiba .....        | 2   | 0    | Chilian .....          | 107 | 0    |
| Peru .....           | 5   | 1    | Jamaica .....          | 215 | 103  |
| Tolu .....           | 78  | 6    | Insect-powder .....    | 9   | 9    |
| Benzoin, Siam .....  | 17  | 3    | Ipecacuanha (Bahia)    | 2   | 2    |
| Sumatra, &c.....     | 208 | 33   | (Cart.) .....          | 19  | 2    |
| Buchu .....          | 111 | 0    | (Rio) .....            | 17  | 5    |
| Calumha .....        | 237 | 4    | Jalap .....            | 45  | 0    |
| Camphor, refined...  | 19  | 0    | Kamala .....           | 15  | 1    |
| Canella alba .....   | 30  | 0    | Kola-nuts .....        | 11  | 0    |
| Cannabis indica ..   | 166 | 12   | Labrador tea .....     | 1   | 0    |
| Cardamoms .....      | 363 | 114  | Lavender-flowers...    | 80  | 0    |
| Cascara sagrada ..   | 50  | 0    | Lime-juice.....        | 16  | 0    |
| Cascarilla .....     | 41  | 0    | Liquorice-juice ..     | 19  | 0    |
| Castor oil .....     | 19  | 0    | Manna .....            | 5   | 1    |
| Castor-seed .....    | 1   | 0    | Marjoram-herb ..       | 2   | 0    |
| China-root .....     | 3   | 0    | Matico-leaves .....    | 8   | 0    |
| Chiretta.....        | 16  | 0    | Menthol.....           | 5   | 2    |
| Cinchona .....       | 85  | 11   | Musk .....             | 16  | 1    |
| Civet .....          | 10  | 3    | Nutmeg-paste .....     | 2   | 0    |
| Coca-leaves .....    | 54  | 0    | Nux vomica .....       | 190 | 1    |
| Colocynth .....      | 21  | 2    | Oil, anise, star ..... | 16  | 0    |
| Coriander-seed ..... | 20  | 0    | bay .....              | 2   | 0    |
| Croton-seed .....    | 1   | 1    | bergamot .....         | 2   | 0    |
| Cubebs .....         | 238 | 0    | cassia .....           | 16  | 7    |
| Cuscuta .....        | 65  | 0    | castor (E. I.).....    | 68  | 0    |
| Cuttlefish-bone ..   | 6   | 0    | cinnamon .....         | 16  | 0    |
| Dill-seed .....      | 24  | 0    | citronella .....       | 23  | 5    |
| Dragon's-blood ..    | 20  | 0    | cod-liver .....        | 15  | 0    |
| Ergot of rye .....   | 37  | 0    | eucalyptus.....        | 86  | 0    |
| Galangal .....       | 5   | 0    | geranium .....         | 1   | 0    |
| Galls .....          | 84  | 38   | lemon .....            | 11  | 0    |
| Gentian .....        | 75  | 0    | lemongrass .....       | 38  | 0    |
| Glycerin .....       | 65  | 65   | myrtle .....           | 1   | 0    |
| Gookhru .....        | 1   | 0    | neroli .....           | 3   | 0    |



| Offered           |     | Sold |    | Offered              |      | Sold |     |
|-------------------|-----|------|----|----------------------|------|------|-----|
| Oil—              |     |      |    | Rhubarb .....        | 272  | ...  | 29  |
| nutmeg .....      | 2   | ...  | 0  | Sarsaparilla .....   | 126  | ...  | 51  |
| orange .....      | 2   | ...  | 0  | Sassafras-bark ..... | 14   | ...  | 0   |
| patchouli .....   | 1   | ...  | 0  | Scammony .....       | 34   | ...  | 0   |
| rose (Bombay) ..  | 9   | ...  | 2  | Scammony-root ..     | 60   | ...  | 0   |
| rosemary .....    | 1   | ...  | 0  | Senna, Alexandrian   | 100  | ...  | 0   |
| wood .....        | 32  | ...  | 0  | Tinnevely .....      | 119  | ...  | 78  |
| Opium .....       | 11  | ...  | 0  | Soy, China .....     | 70   | ...  | 0   |
| Orange-peel ..... | 50  | ...  | 3  | Tamarinds .....      | 682  | ...  | 113 |
| Orris-root .....  | 113 | ...  | 2  | Tonka-beans .....    | 5    | ...  | 0   |
| Otto rose .....   | 4   | ...  | 0  | Turmeric .....       | 216  | ...  | 22  |
| Patchouli-leaf .. | 30  | ...  | 0  | Vanilla .....        | 327  | ...  | 176 |
| Quillaia .....    | 55  | ...  | 55 | Vermilion .....      | 13   | ...  | 0   |
| Quince-seed ..... | 2   | ...  | 2  | Wax (bees') .....    | 1423 | ...  | 395 |
| Quinine .....     | 2   | ...  | 0  | (Japan) .....        | 70   | ...  | 50  |
| Rhatany .....     | 40  | ...  | 0  | Yellow-berries ..... | 31   | ...  | 0   |

**Monthly Vanilla Sales.**—When Mr. W. S. Green, of Messrs. Brookes & Green, went into the pulpit this morning, he said it had been proposed that in future the vanilla sales be held monthly instead of fortnightly. His brother brokers were all agreeable to this on the condition that the brokers were not bound down too tightly, for a man might just be too late for the monthly sale, and his agreement compels him to sell in fourteen days, in which case a fortnightly sale would be a necessity. Therefore, in future, as there seemed to be no dissent, vanilla will be sold once a month on Thursdays.

**ACONITE-ROOT.**—Japanese root partly sold at 23s. per cwt.

**ALOES.**—In fair inquiry at unchanged rates. Cape were in small supply: fine bright hard were bought in at 27s. 6d., a bid of 25s. 6d. being refused; ordinary dull and drossy sold at 24s. per cwt. Good dark Zanzibar hard in skins sold at 60s. to 62s. 6d., fair brown soft at 37s. to 45s., and ordinary common and drossy at 26s. per cwt., subject. Socotrine in kegs, of fine brown colour, were limited, at 75s. per cwt.

**ANNATTO-SEED.**—Fair bright West Indian sold cheaply at 1d. per lb.; 4 other parcels were bought in at 3d. to 3½d. per lb.

**ARECA-NUTS.**—Fine Ceylon partly sold at 25s. per cwt.

**ARGOL.**—Good firsts, from the Cape, realised 39s. and dull and dusty ditto 34s. per cwt.

**ASAFTIDA** sold with good competition at very full to dearer prices. The following were among the prices paid: Persian Gulf, good pale loose almonds, 90s. to 95s. per cwt., good brown almonds, 80s., and darker ditto, 55s. to 67s. 6d. Forty boxes of another lot sold at 47s. 6d. up to 70s. per cwt., the finer qualities being good pinky with loose almonds, but more or less heavy with ground mica. Of another lot of 55 cases from Bombay, 69s. to 70s. was paid for medium soft pinky block, 45s. to 46s. for common brown block, down to 24s. per cwt. for inferior. Twenty-nine cases of another parcel offered without reserve at 15s. 6d. to 25s. The bulk of the purchases were for the United States. We understand that a large quantity will be sold without reserve by public auction in a fortnight.

**BALSAM COPAIBA.**—Two casks of thin Maranham and thickish cloudy ditto were limited in auction at 1s. 7d. per lb. A good business has been done in Liverpool recently, over 30 barrels cloudy Maranham changing hands at 1s. 4½d. per lb.

**BALSAM TOLU.**—In good supply and lower. Good hard, in 10-lb. tins, sold at 1s. 4d. per lb.; bids for other parcels were refused.

**BENZON.**—In better inquiry publicly at unchanged rates. Sumatra, of which there was a good supply, brought 8l. 17s. 6d. to 9l. per cwt. for fair seconds, well packed with small pale almonds; ordinary seconds small palish almonds, rather false packed, sold at 6l. 10s. The parcels of fine gum were bought in at 11l., no bids being made. Palembang was bought in at 60s. Of Siam, small loose almonds brought 6l. 10s., and pickings in hard block 4l. 5s. per cwt.; for fine bold loose almonds, 17l. to 18l. was wanted.

**BUCHU.**—No business was effected publicly; fair round green leaves were limited at 5d. per lb.

**CALUMBA.**—Good bold rough sorts sold at 21s. per cwt., and for washed yellow 35s. was wanted.

**CAMPION.**—The crude market is slightly easier in the absence of business. There are sellers of Chinese for arrival

at 120s. per cwt. in second hands, while importers quote 121s., c.i.f. Japanese is also easier at 124s., c.i.f. On Friday 593 cases of Chinese crude, all more or less sea-damaged, will be offered without reserve.

**CANNABIS INDICA.**—Fair green tops, rather broken, were held for 4½d. per lb., and greyish siftings, with few tops, 3½d. per lb. A few packages sold at 3½d.

**CARDAMOMS** sold with fair competition at slightly dearer rates. The following was the range of prices:—Ceylon-Mysore, fine medium to good bold pale pods, 3s. 11d. to 4s.; good bold steady, 3s. 10d.; medium to bold pale, 3s. 5d. to 3s. 6d.; dull small to medium ditto 3s. to 3s. 3d.; bold dull long pale, 3s. 2d.; medium lean pale, 2s. 6d.; pale medium long, 2s. 10d. to 2s. 11d.; small pale long, 2s. to 2s. 4d.; long dull bleached, 2s. 9d.; very small lean, 1s. 9d.; medium dull long, 2s. 2d.; good splits, 2s. 3d.; long, lean and split, 1s. 6d. to 1s. 9d.; brown splits and pickings, 1s. 8d. Ceylon-Malabar, fair to medium lean palish, 1s. 11d., and small brown lean, 1s. 8d.; fair wild Ceylon, 2s. 6d. per lb. Seeds, good brown, 2s. 4d.; mixed seeds 2s. 2d.

The shipments from Ceylon from January 1 to May 16 were 216,087 lbs.

**CASCARA SAGRADA.**—Privately new crop is quoted 25s. per cwt., c.i.f., for June-August sailer shipment, and in another quarter 20s. per cwt. is spoken of as the likely figure for a car-load.

**CINCHONA.**—In auction the demand was for Crown and grey bark only, which sold as follows:—Good bold pale Crown Loxa, 7½d. per lb.; 1 c.c. damages, 5½d. to 6½d.; second class, 3½d. to 4½d.; and fourth class, 2d. Dusty grey Huanoco, broken, was bought in at 5d., and Bolivian cultivated Calisaya, thin, was limited at 10d. per lb., and Cartagena, flat, at 4½d. per lb. Four bales of flat Calisaya brought 4d. per lb., subject to approval.

The shipments from Ceylon from January 1 to May 16 were 284,371 lbs.

The stocks in first hands at Amsterdam on May 31 consisted of 2,403 packages Government and 9,896 packages private bark. The arrivals last week in Amsterdam were 2,553 packages.

The "Nederlandsche-Veem" reports the cinchona-bark shipments from Java during May at

|            | 1899      | 1898      | 1897      | 1896      | 1895      |
|------------|-----------|-----------|-----------|-----------|-----------|
| Amst. lbs. | 943,000   | 672,000   | 600,000   | 768,000   | 402,700   |
| Jan.-May   | 3,964,800 | 3,884,000 | 2,510,000 | 3,260,000 | 2,879,700 |

while the "Vriesseveen" received a telegram from Java announcing the shipments from May 2 to June 5 at 1,156,000 Amst. lbs., and from January 1 to June 5 at 3,848,403 Amst. lbs.

**CIVET.**—Some highly-flavoured soft brown paste sold at 10s. per oz., and there is about 15 lbs. more to be had at the same price.

**COLOCYNTH.**—Easier, good white medium to bold Turkey apple selling at 11d., and broken pulp at 6d. per lb.; other lots were limited at 1s. per lb.

**CROTON-SEEDS.**—A bag of fair Ceylon sold at 52s. per cwt.

**DRAGON'S BLOOD.**—No really fine quality was offered to-day, and no business was done publicly. A bid of 15l. per cwt. was refused for poorish picked lump of fair colour, and other lots were bought in at 10l. 10s. to 12l.

**GAMBOGE.**—Good bright loose-picked orange pipe was bought in at 10l. per cwt., 9l. being refused. Poor run and mixed pickings realised 6l. to 6l. 5s.; chips and broken pieces, 6l. 7s. 6d.

**GUM ARABIC.**—Privately small sales of insoluble red sorts have been made at 20s., and unworked at 21s. per cwt., and altogether holders are inclined to accept lower prices. Good white Turkey sorts sold in auction at 82s. per cwt. while the limit for Trieste picked was 6l. 10s. per cwt.

**GUM ELEMI.**—Fifty shillings per cwt. was the limit placed upon 5 cases of good pale soft.

**GUM GUAIACUM.**—Fair glassy resin in block sold at unchanged prices—viz., 1s. 2d. per lb.; and drossy and poor block at 3½d. per lb. A box of good loose glassy green tear sold at 2s. 1d. per lb.

**GUM MASTICH.**—Fine pale tear was limited at 1s. 8½d.

per lb., at which figure two cases out of the three catalogued sold privately.

**GUM SANDARAC.**—No business in auction, but good white tear has sold privately at 50s. per cwt.

**HONEY** was well represented to-day, and sold, with fair competition, at unchanged rates. Jamaica, good set white, at 23s. to 23s. 6d.; ditto, brown and dark liquid, 21s. to 21s. 6d.; brown, unworked, 20s. For Chilian, 24s. 6d. was refused for pale set, and 19s. 6d. for dark ditto. Brown candied Australian realised 19s. per cwt.

**INSECT-FLOWERS.**—Quiet this week, the only purchasers being the unlucky individuals who have not bought "forward," and they are the exception, most wholesalers being well supplied.

A Trieste correspondent informs us that the receipts of flowers during May amounted to 41,200 kilos, and the deliveries 54,400 kilos, leaving the stock at the end of the month 161,400 kilos. The receipts for the eleven months ending May were 548,200 kilos., and the deliveries 607,100 kilos. The following are the quotations (net), f.o.b. Trieste, for the qualities named packed in pressed bales of about 200 kilos.:—Wild, 106s. to 114s.; closed, 83s. to 85s.; half-open, 51s. to 68s.; open, 46s. 6d. to 48s.

**INSECT-POWDER**—Dark powder sold without reserve at 4½d. up to 8d. per lb.

**IPECACUANHA**—Privately a fair business was done in Rio before to-day's sales at 13s. 6d. per lb., and yesterday holders wanted 15s. In auction 12s. per lb. was paid for Cartagena, first-class damages, and some 9 bales had been sold privately at this figure; for common 10s. was wanted. Good native washed sound thin Rio root sold at 14s. 6d. to 14s. 9d., and 2 bales of mouldy Bahia realised 6d. per lb., subject.

**JALAP.**—Vera Cruz tuber is still tending upwards, and worth from 5d. to 5½d. per lb., c.i.f., or 7d. per lb. on the spot for the best. Buyers in auction were not disposed to come up to sellers' figures, and the best lots of clean small to bold tuber were limited at 7d. per lb., and long lean at 6d.

**KAMALA.**—One case of good sold at 6d. per lb.

**KINO.**—A sale was made in auction to-day, when a package of fair dark Cochin grain found a buyer at 3s. 6d. per lb.

**MANNA.**—A lot of sticky and syrupy-looking stuff sold without reserve at 5d. per lb.

**MENTHOL.**—Firm this week, business having been done at 6s. 10½d. per lb. on the spot. In auction Kobayashi brand crystals partly sold at 6s. 6d. per lb.

**MUSK.**—Very slow of sale. Nothing was sold at to-day's auctions, and prices remain unaltered.

**NUX VOMICA.**—For good clean seed 10s. 6d. per cwt. was refused; another parcel of small to medium fair was limited at 8s., at which figure business has been done privately. A bag of sweepings realised 6s. 6d. per cwt.

**OIL, ANISE, STAR.**—Quiet. On the spot there are sellers at 5s. 9d. per lb., and May-June steamer at 5s. 7½d.

**OIL, BAY.**—West Indian distilled, imported November, 1898, was limited at 5s. per lb.

**OIL, CASSIA.**—Quiet privately, with a small spot business at 4s. 3d. per lb. for 80 to 85 per cent. cinnamic aldehyde. In auction 82 per cent. and 77 per cent. were limited at 4s. 6d. per lb. No bids were made.

**OIL, CITRONELLA.**—Dull of sale, at 1s. to 1s. 0½d. per lb. in drums on the spot, and for August shipment there are sellers at 10½d. per lb., c.i.f., in drums. A parcel of 5 packages catalogued as "guaranteed to pass Schimmel's test," sold without reserve at 11d. per lb.; other parcels of good odour were limited at 1s. 1d. per lb.

The Ceylon shipments for the week ending May 9 were 19,788 lbs. and from January 1 to May 9 they have been:—

| Lbs. | 1899    | 1898    | 1897    | 1896    |
|------|---------|---------|---------|---------|
| ...  | 393,275 | 482,356 | 443,775 | 359,404 |

**OIL, LEMONGRASS.**—There are sellers at 2½d. per oz., c.i.f. for June shipment, and 2½d. spot.

**OIL, ROSE.**—Settlings only sold at ¾d. per oz.

**ORANGE PEEL.**—Dull of sale, as usual. A small lot of

thick Maltese strip realised 5d. per lb. Fresh-cut peel is now almost unobtainable, and higher prices are looked for.

**ORRIS.**—A small lot of Verona brought 10s without reserve, and a package of brown Mogador 13s. per cwt.

**QUILLAIA** realised 14l. 15s. per ton.

**QUINCE-SEED.**—Very dear. Two bags of fair quality, from the Cape, found a buyer at 1s. 4d. per lb.

**RHUBARB.**—Quiet, but fairly steady. The bulk of the supplies consisted of Canton root. Good bold round, part rough, three-quarters pinky, one-quarter grey, was bought in at 1s., and medium ditto sold at 9½d. to 10d.; part trimming and part rough brought 11d.; and round and flat rough pickings, 7d. and 8d. per lb.; common round stalky high-dried, medium, flat, half grey, half dark break, 10d.

**SARSAPARILLA** sold at unchanged prices. Jamaica, good fibrous grey, damaged, at 1s. 7d. to 1s. 8d.; ditto, dull native red 8d. to 10d. per lb. Honduras, in compact roll, 1s. 5d.; Lima-Jamaica, part chumpy and damaged, 10d. to 1s. 1d.; and for a parcel of Guayaquil 10d. was refused.

**SENNA** was in more plentiful supply to-day, but mostly of common quality. There was a strong competition for it, however, and the bulk sold at about ¼d. to ½d. per lb. dearer prices. The following were the prices paid:—Tinnevely, good bold green leaf (four bales), 10d.; medium to fair green leaf, 3d. to 3½d.; and small to medium, part brown and yellowish, 1½d. to 2½d. per lb. Pods realised 1½d.; sales privately have been made at 2½d. No sales of Alexandrian were made. Privately there have been inquiries for Alexandrian, of fine leaf, for the United States; but, as the supply is exhausted, no business has been done. Old crop is not wanted.

**SOY.**—Large arrivals have come to hand lately, and the market in consequence is easier at 1s. 3½d. per gallon, c.i.f. Spot is offered at 1s. 6d. for good.

**TAMARINDS.**—Eight brokers offered voluminous supplies, the bulk consisting of West Indian, chiefly new crop from Antigua and Barbados, but very little sold publicly, 10s. 6d. being the highest bid for stuff which was limited at 12s. 6d. to 14s. 6d. Some lower grades sold at 7s. 6d. to 9s. 6d. per cwt., and a large lot sold privately. A parcel of East Indian in bundles, offered without reserve, found buyers at 8s. to 8s. 6d. per cwt., and a very low lot fetched 7s. 6d.

**TURMERIC.**—In auction bright Madras finger brought 24s. per cwt.; another lot was limited at 27s. 6d.

**VANILLA.**—Moderate supplies were catalogued to-day, and mostly sold at 1s. higher as follows:—Madagascar, 8 to 8½ inch, 15s. 6d.; 7 to 7½ inch, 14s.; 6 to 6½ inch, 13s. 6d.; 5 to 5½ inch, 12s. to 12s. 6d. Seychelles, good chocolate, 5 to 6 inch, 17s. to 18s.; 4½ to 5 inch, 16s. Bourbon, fine bold, 8 inch, 26s. 6d.; 7 to 8 inch, 26s.; 6 to 6½ inch, 23s.; 6 to 7 inch, 20s.; 5 to 5½ inch, 23s.; 3½ to 4½ inch, 22s. 6d.; mixed sizes, 10s. 6d. to 13s. 6d. per lb.

**WAX, JAPAN.**—Quiet privately, at 29s. 6d. per cwt. forward delivery, and 31s. 6d. spot. Fifty cases sold without reserve at 28s. 6d. to 30s.

## Coming Events.

**Saturday, June 10**

*Wholesale Chemists' and Druggists' Cricket Championship.*  
Match at Brockley—Stevenson & Howell's v. Kepler.

**Monday, June 12.**

*The Röntgen Society*, 11 Chandos Street, Cavendish Square, W.  
at 8 p.m. Portable Röntgen apparatus and two new stereoscopes will be shown and demonstrated.

**Tuesday, June 13.**

*Royal Photographic Society*, 12 Hanover Square, W., at 8 p.m.  
Professor V. B. Lewes on "Acetylene."

**Wednesday, June 14.**

*Western Chemists' Association.* Special meeting at the Westbourne Restaurant, Craven Road, at 9 p.m., to consider the Companies Bill as it affects pharmacy.

**Thursday, June 15.**

*Chemical Society*, Burlington House, Piccadilly, W., at 8 p.m.



# Viol

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| VINOLIA TOOTH SOAP (In Round Metal Box) ... ..             | 6d.                       | 3/6 subject.                |
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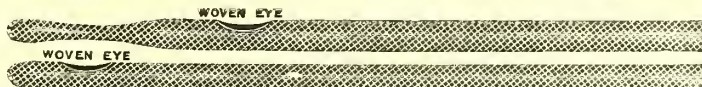
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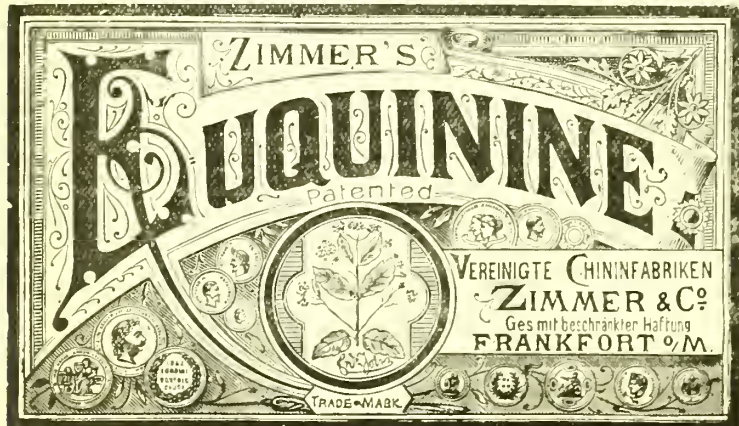
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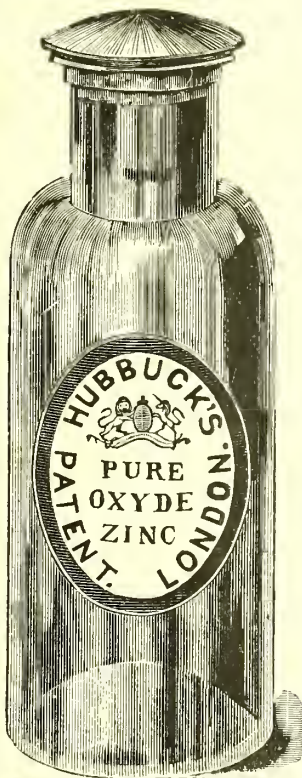
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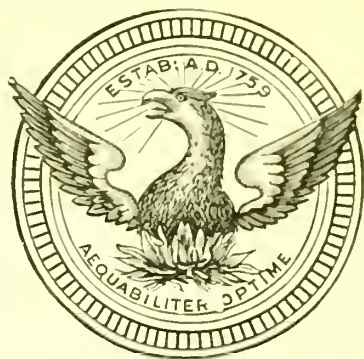
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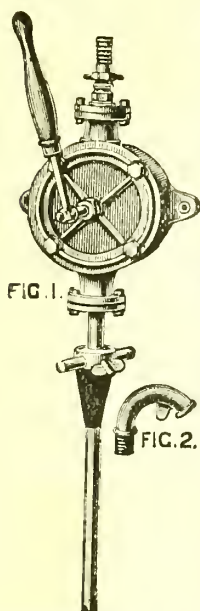


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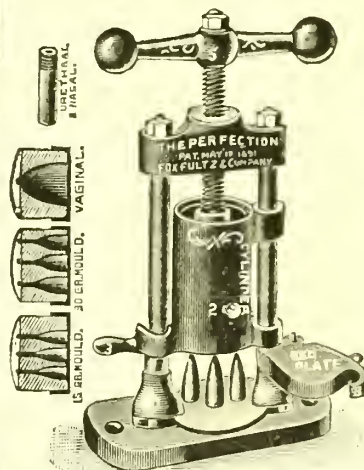
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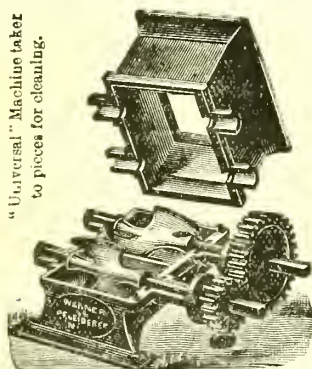
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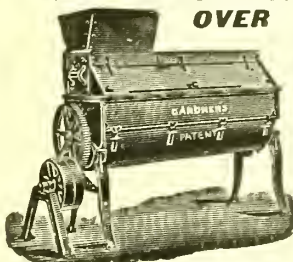
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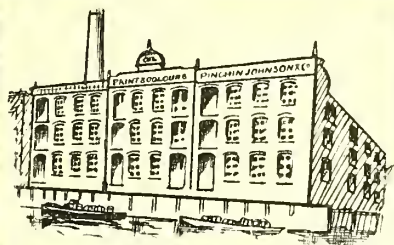
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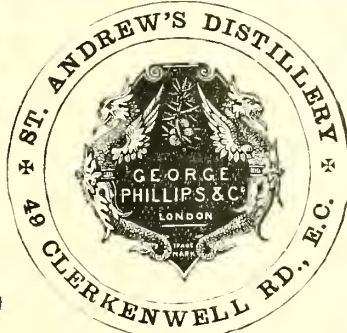
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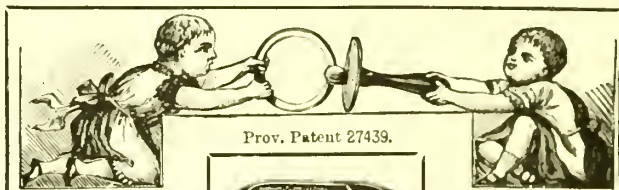
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No more children  
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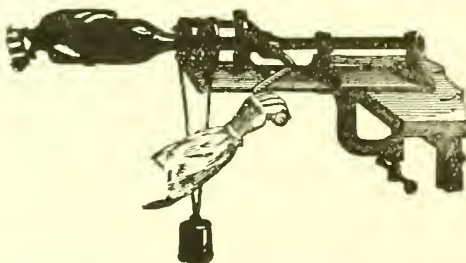
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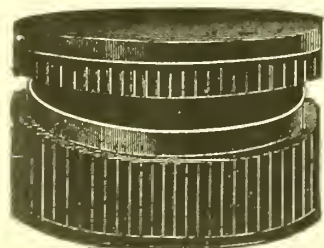
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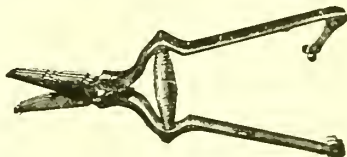
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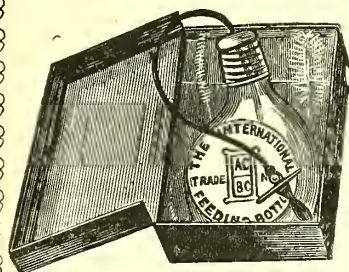


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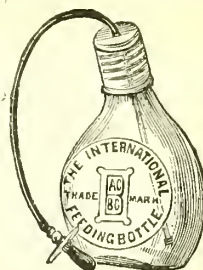
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|      | 1    | 2   | 4   | 8   | 16  | 20  | 30  | 40 oz.       |
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| W.M. | 1/11 | 2/- | 2/5 | 3/3 | 4/6 | 5/- | 5/9 | 6/6 "        |

### COUGH MIXTURE FLATS. Panelled.

|  | 1 1/2 | 2   | 2 1/2 | 3   | 4    | 5    | 6    | 8 oz.       |
|--|-------|-----|-------|-----|------|------|------|-------------|
|  | 6/-   | 7/- | 7/6   | 8/6 | 10/- | 11/- | 11/6 | 12/- P. gr. |

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|-----------|------|------|-------|------|------|-------------|
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### WHITE METAL SCREW-CAP ROUNDS.

|  | 3/4 | 1    | 1 1/2 | 2    | 2 1/2 | 3    | 4    | 6 oz.       |
|--|-----|------|-------|------|-------|------|------|-------------|
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|                       | 1    | 1 1/2 | 2    | 3    | 4    | 6    | 8    | 10   | 12   | 16   | 20 oz.      |
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| N.M., Plain,          | 6/-  | 7/-   | 8/-  | 10/- | 10/6 | 12/6 | 13/6 | 19/- | 21/6 | 26/- | 30/- P. gr. |
| Ground Glass Stoppers | 15/- | 16/-  | 17/- | 20/- | 20/6 | 25/- | 27/- | 32/6 | 35/- | 41/- | 48/- "      |

### GRADUATED MEASURES.

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|--|-----|-----|-----|-----|------|------|------|--------|
|  | 5/6 | 5/6 | 6/6 | 8/- | 10/6 | 13/6 | 16/- | 18/-   |

Bearing the Government Inspector's mark of verification.

### CHELTENHAMS. Pale Green or Pale Blue Tint.

|                       | 1   | 2   | 3    | 4    | 6    | 8    | 10   | 12   | 16 oz.      |
|-----------------------|-----|-----|------|------|------|------|------|------|-------------|
| Fitted Glass Stopper, | 5/- | 6/- | 6/6  | 7/-  | 8/-  | 9/-  | 13/- | 15/- | 16/- P. gr. |
| Cork Rings            | —   | —   | 10/- | 11/- | 12/- | 13/- | 18/- | 21/- | 21/6 "      |

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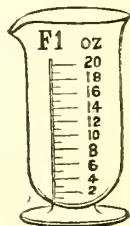
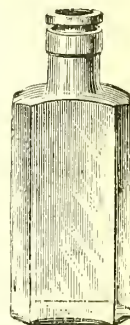
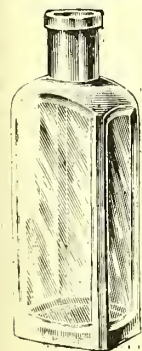
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Shop Bottles and Jars, with vitrified labels,  
Show Bottles,  
Perfume Bottles,  
Photo Bottles, &c.

Price List on application.

TINCT. LOBEL.ÆTH.ER.  
NATR. BICARBON.  
OL. NUCIS CO.  
DEVELOPING SOLUTION

## R. H. BARRETT'S PATENT CAPPED BOTTLE.

The only REALLY PERFECT Bottle for Vaseline, Boot Creams, Pomades, Dry Powders, &c.

### PRICES:

TALL SERIES, fitted with STRONG METAL CAPS, CORK-LINED, in various Colours, very attractive in appearance:—

1-OZ. 11/6; ½-OZ. 12/-; 2-OZ. 12/9; 3-OZ. 15/9; 4-OZ. 17/3 per gross, &c.

Special Prices on application for Quantities.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.

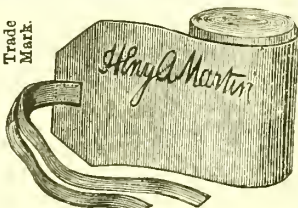
## R. H. BARRETT,

FLINT GLASS BOTTLE WORKS, THE OVAL, CAMBRIDGE HEATH, LONDON, E

TELEGRAPHIC ADDRESS—"FOREFRONT LONDON."

## DR. MARTIN'S PURE RUBBER BANDAGES.

For  
Varicose  
Veins, Ulcers,  
Eczema of the  
Leg, Swollen  
and Weak  
Joints.



CAUTION.—Please order *Genuine Martin's Bandages*, each being stamped with Dr. Martin's signature. All others are *Spurious Imitations*.

Complete Price List Trade Discount, and Pamphlet post free.

| No. | PRICES.                                       | Feet | Inches | Each |
|-----|-----------------------------------------------|------|--------|------|
| 3A. | Thin, for ankle, elbow, wrist, and forearm .. | 6    | 2½     | 3/6  |
| 3B. | Thick .. ..                                   | 6    | 2½     | 4/-  |
| 1B. | Thin, for leg below knee .. ..                | 10½  | 3      | 5/6  |
| 1A. | Thick .. ..                                   | 10½  | 3      | 7/6  |
| 8.  | Thin, for leg and knee .. ..                  | 14   | 3      | 7/6  |
| 7.  | Thick .. ..                                   | 14   | 3      | 9/6  |
| 9B. | Thin, for leg and thigh .. ..                 | 21   | 3      | 10/6 |
| 9A. | Thick .. ..                                   | 21   | 3      | 13/6 |

Sole Agents—**KROHNE & SESEMANN, SURGICAL INSTRUMENT MAKERS,**  
8 DUKE STREET, MANCHESTER SQUARE, LONDON.

## NEW POISON REGULATIONS.

## STEPHENSON'S PATENT POISON BOTTLE.



No. 6324.

|                          | PRICE LIST. | Plain.          | Stoppered. |
|--------------------------|-------------|-----------------|------------|
| 1-oz. deep Blue Glass .. | 6/6         | 24/- per Gross. |            |
| 1 " " " " " " " " " "    | 7/6         | 28/-            | "          |
| 1½ " " " " " " " " " "   | 8/6         | 30/-            | "          |
| 2 " " " " " " " " " "    | 9/6         | 34/-            | "          |
| 3 " " " " " " " " " "    | 11/-        | 36/-            | "          |
| 4 " " " " " " " " " "    | 12/6        | 40/-            | "          |
| 6 " " " " " " " " " "    | 15/-        | 42/-            | "          |
| 8 " " " " " " " " " "    | 16/6        | 50/-            | "          |
| 10 " " " " " " " " " "   | 21/-        | 55/-            | "          |
| 12 " " " " " " " " " "   | 24/-        | 62/6            | "          |
| 16 " " " " " " " " " "   | 30/-        | 69/-            | "          |
| 20 " " " " " " " " " "   | 34/-        | 75/-            | "          |
| 32 " " " " " " " " " "   | 50/-        | 88/-            | "          |
| 40 " " " " " " " " " "   | 60/-        |                 | "          |

Samples on application to any of the Wholesale Drug or Druggists' Sundry Houses. See opinions of the Press. *Truth, Daily News, Pall Mall Gazette, &c.*

Special Labels for this Bottle may be obtained from Mr. SILVERLOCK 12 BLACKFRIARS ROAD, LONDON, S.E.

Sole Manufacturers, **Hearns, Lim.,** Echpsio Glass Works, London, N.E.  
Lea Bridge,  
Manufacturers of every description of Glass Bottles, plain or stoppered.

## DISPENSING BOTTLES.

## THE NORTH LONDON GLASS BOTTLE COMPANY (I. ISAACS & CO., Proprietors)

Beg to Inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

|                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                             |                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 & 4 oz. ..                                                                                                                                                                            | 7/6 per gross.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10 & 12 oz. ..                                                                                                                                                              | 12/- per gross.                                                                                                                                                                                                                                                   |
| 6, 8, 10, 12, 16, 20, 24, 32, 40, 48, 64, 80, 96, 128, 160, 192, 224, 256, 288, 320, 352, 384, 416, 448, 480, 512, 544, 576, 608, 640, 672, 704, 736, 768, 800, 832, 864, 896, 928, 960 | 8/6, 9/6, 10/6, 11/6, 12/6, 13/6, 14/6, 15/6, 16/6, 17/6, 18/6, 19/6, 20/6, 21/6, 22/6, 23/6, 24/6, 25/6, 26/6, 27/6, 28/6, 29/6, 30/6, 31/6, 32/6, 33/6, 34/6, 35/6, 36/6, 37/6, 38/6, 39/6, 40/6, 41/6, 42/6, 43/6, 44/6, 45/6, 46/6, 47/6, 48/6, 49/6, 50/6, 51/6, 52/6, 53/6, 54/6, 55/6, 56/6, 57/6, 58/6, 59/6, 60/6, 61/6, 62/6, 63/6, 64/6, 65/6, 66/6, 67/6, 68/6, 69/6, 70/6, 71/6, 72/6, 73/6, 74/6, 75/6, 76/6, 77/6, 78/6, 79/6, 80/6, 81/6, 82/6, 83/6, 84/6, 85/6, 86/6, 87/6, 88/6, 89/6, 90/6, 91/6, 92/6, 93/6, 94/6, 95/6, 96/6, 97/6, 98/6, 99/6, 100/6 | 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100 | 16/-, 18/-, 20/-, 22/-, 24/-, 26/-, 28/-, 30/-, 32/-, 34/-, 36/-, 38/-, 40/-, 42/-, 44/-, 46/-, 48/-, 50/-, 52/-, 54/-, 56/-, 58/-, 60/-, 62/-, 64/-, 66/-, 68/-, 70/-, 72/-, 74/-, 76/-, 78/-, 80/-, 82/-, 84/-, 86/-, 88/-, 90/-, 92/-, 94/-, 96/-, 98/-, 100/- |

WHITE MOULDED PHIALS, plain or graduated Teaspoons—  
½ oz. .. 3/6 per gross. 1½ oz. .. 4/6 per gross  
1 " " 3/9 " " 2 " " 5/- " "

### PLEASE NOTE.

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

**I. ISAACS & CO., Glass Bottle Manufacturers,**  
108 MIDLAND ROAD, ST. PANCRAS, LONDON.  
Established 50 years. Bankers—London and Westminster Bank



## VINCENT WOOD'S

### LATEST SPECIALITIES— THE "EUREKA" HERNO TRUSSES.

The Pad is made of a Patented Elastic Composition, which is not affected by heat or cold, and the wear very luxurious.

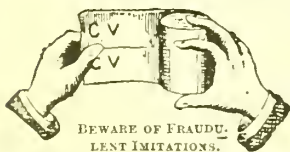
| Prices per doz. | A    | B    | C quality. |
|-----------------|------|------|------------|
| Single ..       | 18/6 | 27/- | 30/-       |
| Double ..       | 27/- | 42/- | 45/-       |

SEND FOR MY PRICE LIST.

Another great Surgical Invention is  
**THE EUREKA "CREPE VELPEAU" RUBBERLESS POROUS BANDAGES.**

They will supersede every other in the near future.  
In Bandages 2½ & 3 in. in width.  
12 - 15 - 18 - per doz.

Maker on the Premises of  
ELASTIC STOCKINGS,  
TRUSSES, SUSPENSORY  
BANDAGES, BELTS,  
CHEST PROTECTORS, &c.



4 ALBION PLACE, BLACKFRIARS BRIDGE, LONDON, S.E.



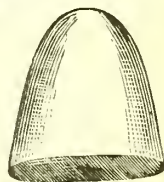
# ADVANCE IN MEDICAL GLASS

S. MAW, SON & THOMPSON beg to inform the Trade that, in consequence of the increased cost of production entailed by the great advances in the price of fuel and other raw materials, together with the very considerable restriction of the hours of labour by the Workmen's Trade Union, it has been found imperative to raise the prices of Medical Dispensing Bottles, &c., 10 per cent. from this date.


June 1, 1899.

## RENDELL'S

"WIFE'S FRIEND" SOLUBLE QUININE PESSARIES.



THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in **RED INK**, are upon each box thus :—

Registered  
Trade Mark   
without which  
none are genuine.  
No. 182,688.

*W. J. Rendell*

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

### IMPORTANT NOTICE AND CAUTION

Several Injunctions in the High Court of Justice having already been obtained against "Infringers" (reports of which have appeared in "The Chemist and Druggist," the most recent cases being March 19, 1898, and January 19, 1899, W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof, in connection with Pessaries **not** manufactured by

## W. J. RENDELL,

Inventor and Sole Maker of the "WIFE'S FRIEND" SOLUBLE PESSARY,

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## FREDK. FINK & CO.

10 & 11 MINING LANE, LONDON, E.C.

**SPECIALITIES:** Glycerine — Gum Arable —  
Gum Tragacanth — Pure Beeswax — Honey.

**HUGO LORENZ,** 7 & 8 Idol Lane, LONDON, E.C.

**ALCOHOL ABSOLUTE,** according to new "British Pharmacopoeia," in about 1-cwt. basketed Tins, ex stock London, in bond, and duty paid.

**S.V.R.** in 40-gallon Drums, pure tinned.

**AMMONIA, LIQUID ANHYDROUS** for Ice Machines.



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(Whits or Coloured),

WITH INSCRIPTIONS IN ANY DESIRED  
TINT; ALSO PLAIN OR EMBOSSED.

"Beautifully made, and the inscriptions give them a distinction all their own."—C. & D.

"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache, Neuralgia, & other powders

**COOPER & CO.,** 80 Gloucester Road, SOUTH KENSINGTON.

In Nine Sizes. Also made to fit existing machines.

HIGH-CLASS MECHANICAL

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Lowest Prices, Superior Workmanship. Price Lists free.

**FRED. H. BARKER, DENTIST, GRIMSBY.**

**Barker's Premier Amalgam. The Best Stopping.**

PRICE 10/- PER OZ.

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**THE NEW "ONYX" HALF-CROWN CAMERA.**

1/2-plate size, made in Wood, with Nickel-plated Lens, Dark Slide, Focussing Glass, Plates, Chemicals, and instructions. Trade price, 20/- dozen.

Send Trade Card with Postal Order for 2/- and we will send Sample Camera and our Illustrated List of Cheap Outfits.

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### EUCALYPTIA.

From "Eucalyptus Globulus." An authentic regenerator of the hair, instantly stopping its falling off, and is invaluable for hairdressing; a safeguard in epidemic times, protecting surrounding the respiratory functions from malarious and vitiated emanations. In Bottles at 2/6, 3/6, 4/6, 7/-, 10/-, &c.

All Wholesale Houses, or direct from

**E. H. THIELLAY,**

Parfumeur-Chimiste, 10, Grosvenor Park, New Cross, LONDON.

(SHOW ROOMS AT CHARING CROSS HOTEL.) (2)

## THE BENEDICTINE SALVE

(Made by the Benedictine Monks of Buckfast Abbey, Devon.)

CURES CANCEROUS WOUNDS, BOILS, CARBUNCLES, TUMOURS, ULCERS, ABSCESSES, WHITLOWS, SCORFULOUS SORES, and other similar diseases. The ingredients and preparation of this salve are, and have been for centuries, a secret with the Benedictine Monks of France. Its healing properties have been effectually proved, and hundreds of testimonials might be given.

SPECIFIC ANTI-BILIOUS PILLS are also supplied.

The Salve and Pills are sold in boxes, 1s. 1/4d. each; post free for 1s. 3/4d. each; two boxes 2s. 4d., with full directions for use. Apply to the Rev. Procurator, Abbey, Buckfastleigh, Devon. AGENTS WANTED.

## TO DENTISTS.

High-class Dental Mechanism in Gold, Dental Alloy, Tubes, Gum Sections, Vulcanite, Celluloid, or their Combinations, by

**A. J. FENTIMAN & CO.,** Dentists,

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in no way connected with any other address. MODERATE CHARGES.

ESTABLISHED 1858. Telegraphic Address—"LULLINGLY LONDON."

We guarantee our Pure Acid to be made directly and entirely from Phosphorus. Absolutely the best and purest on the market.

ANSWERS ALL THE REQUIREMENTS OF THE NEW D.P.

## Phosphoric Acid

WALTER VOSS & CO.

Phosphoric Acid Manufacturers

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## LABORATORY STONE WARE

Pneumatic Troughs, Beehive Shelves, Gas Trays, Acid-proof Battery Jars, Extract Jars, Bung Jars, Mercury Bottles, &c., &c.

**EDWARD WRIGHT & CO., Ltd.**

Wheat Bridge Potteries, CHESTERFIELD.

ESTABLISHED 150 YEARS. Price List free on application.

## NOTICE OF REMOVAL.

**LORIMER & MOYES, Sundriesmen,**

Late 56 Howard St., Now at 191 Argyle St., GLASGOW.

They call the attention of their customers to the New Address, 191 Argyle Street. These commodious premises have been fitted up specially to meet the requirements of their increasing business. Sole Agents in Scotland for

**T. F. BRISTOW & CO.'S** HIGH-CLASS SOAPS, PERFUMERY, & OTHER SPECIALITIES (An early call is solicited. Special attention is given to all letter orders.)

## DIABETES.

**GLUTEN FLOUR** Containing 7% Starch and no Sugar.

MANUFACTURED BY

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Manufacturers of all Foods for Diabetics.

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Telegraphic Address—"GLUTEN LONDON." ESTABLISHED 1859.

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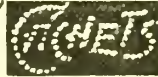
*The Matto Chain*

WHOLESALE FROM

MATTO LTD 32 CLERKENWELL RD EC

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per 1,000.



"Kahnmann"

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Well built, low in price, pure, harmless, always elastic Closing Apparatus Kahnmann at 4/6, 5/6, etc.

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Sole Agent in Great Britain for

**KAHNEMANN & KRAUSE,** CASSET MAKERS, VIENNA (AUSTRIA).

HIGHEST CLASS MECHANICAL

## DENTISTRY.

VULCANITE, DENTAL ALLOY, GOLD, COMBINATIONS, TUBES, CROWNS, BAR & BRIDGE WORK, GUM SECTIONS.

PUNCTUALITY GUARANTEED. BEST MATERIALS ONLY USED.

**MACDONALDS, LTD.,** 29 Piccadilly, MANCHESTER.

QUALITY RIGHT! PRICE RIGHT!

*Extract of Herbs in Bulk for Bottling*

Samples and Prices from **GREENWOOD & CO.,** Manufacturing Chemists, Keighley.





## ALEXANDRE'S SHADEINE

FOR COLOURING GREY HAIR.  
This popular article is largely advertised and  
stocked by all Wholesale Houses.  
TRIAL BOTTLES 6d. also supplied on  
4/- per doz.; 8/6 else, 28/- per doz.  
30 Westbourne Grove, LONDON, W.

## "SILVERY WHITE CUTTA PERCHA ENAMEL" TOOTH STOPPING.



P. A. STEVENS, Surgeon-Dentist  
72 MANFIELD ROAD, N.W.  
Sole Proprietor and Manufacturer.

TRADE MARK. Registered No. 2745.  
Special Terms to Wholesale Houses for Sheet or Sticks stamped with their own name.  
A sample box of 84 sticks sent post free for 12 stamps. Price list and sample free.

## ABSORBENT COTTON.

6d., 7d., 8d., 10d. per lb. 1-cwt. Bales.

THE DARTON GIBBS CO., Pazo Works, OLDBURY.

## PRINT YOUR OWN

Labels, Cards, Tickets, Circulars, Letter-paper,  
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TIME AND MONEY SAVED! — BUY THE

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Price 62/6; SAILER SIZE (6 by 3 chase), 41/6, nett cash.

Type setting easy. Full printed instructions. Up-to-date machine; not a toy.

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A. G. FENTIMAN (longest practical experience working for the Profession),  
assisted by four Dental Mechanics of 25, 23, 19, and 15 years' experience, executes  
guaranteed best materials on/g) skilful and well-finished cases.

Of many received this is a recent testimonial:—"Since you have done my  
mechanical work all my cases have been most satisfactory. I have much  
pleasure in complimenting you upon your good, practical, well-finished cases."

PROMPT RETURN OF WORK MAY BE RELIED UPON.

Most moderate Inclusive Price List on application.

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From 10d. per lb.

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FOR THE TRADE. POISONOUS, OR INFLAMMABLE,  
ARTICLES EXCEPTED. LARGE QUANTITIES  
PROMPTLY DEALT WITH. ENGINE 22 H.P.

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WHITE or COLOURED 3/-  
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From 2/6 to 30/-

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CASES FREE.

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Pulverised. For Dancing Floors. Is not white. Will not ball on the feet. Will not soil clothes. All ready. Anybody can apply it.

The floor must be clean and free from oil. Sprinkle, and the dancers will do the rest. Put up in pound packages.

One pound is sufficient for a floor space of 10,000 square feet, and if not wasted will be found to go four times as far as anything else on the market. No dust is another feature in its favour.

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METAL  
POLISH  
PER TIN.  
4s 6d.

PLATE  
POWDER  
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1s 2d.

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OF THE LORD MAYOR OF LONDON SAYS—  
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As used in the Households of  
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LUNEBURGER WACHSBLEICHE, LÜNEBURG, NEAR HAMBURG.

**BEESWAX, Guaranteed Pure, B.P.**

YELLOW & WHITE, in Blocks, Cakes, Tablets, or any other form.

**CARNAUBA WAX, Best Bleached.****CERESINE WAX, all qualities & shades.**

All Bleached and  
Refined at our own  
Works.

QUOTATIONS: Free to any place in the United Kingdom. Samples Matched.

**TO WHOLESALE & EXPORT CHEMISTS.****Price's Patent Candle Company Ltd.**

BELMONT WORKS, BATTERSEA, LONDON, S.W.,

ARE PREPARED TO QUOTE FOR

**OILS.** Neatsfoot, Lard, Animal, Olive, Cooking, Castor, Cod, Sperm, Coconut, Palm, etc.

Water White Mineral Oil, free from Sulphur (Paraffinum Liquidum B.P.)

**LARDS.** Prepared, Benzoated, Indurated.

**WAXES.** Beeswax, White Wax, Ceresine, Paraffin Wax, Japan Wax, Spermaceti.

**PETROLEUM JELLY** "Ceratine" White or Yellow, Plain or Scented.

Samples and Price Lists on Application.



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"PLAYFELLOW LONDON."

"PLAYFELLOW MANCHESTER."

"PLAYFELLOW NEWCASTLE-ON-TYNE."

FOR

# CO<sub>2</sub>

## THE CARBONIC ACID GAS CO.

LEA BRIDGE ROAD, CLAPTON, LONDON, N.E.

POLLARD STREET EAST, ANCOATS, MANCHESTER.

SKINNERBURN ROAD, LOW ELSWICK, NEWCASTLE-ON-TYNE.

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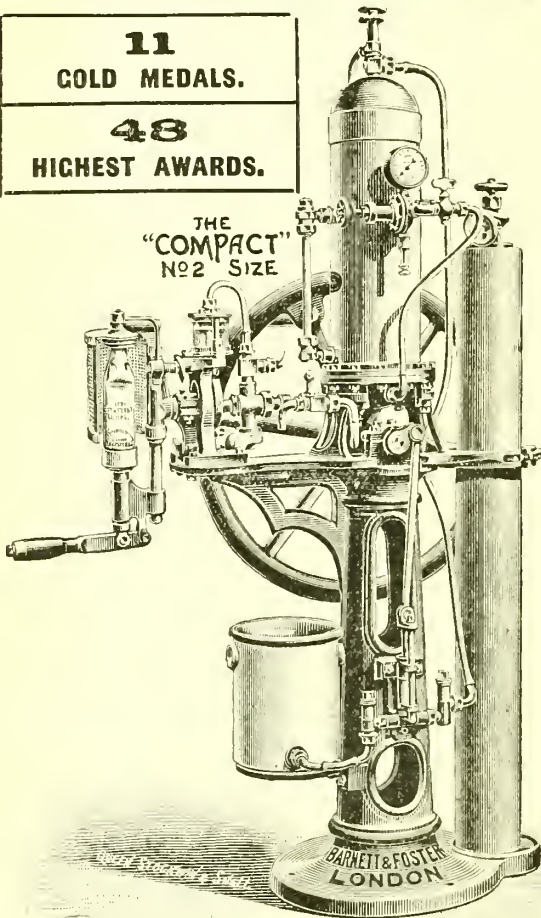
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## "Compact" Soda Water Machine

**11**  
GOLD MEDALS.

**48**  
HIGHEST AWARDS.

THE  
"COMPACT"  
No 2 SIZE



For use with Liquefied Carbonic Acid Gas.  
*Specially designed where space is an object,  
such as with Chemists, Hospitals, &c., &c.*

READY FOR IMMEDIATE WORK.  
REQUIRES NO FIXING.

Waters always of regular quality.

Produces Waters far superior to any other  
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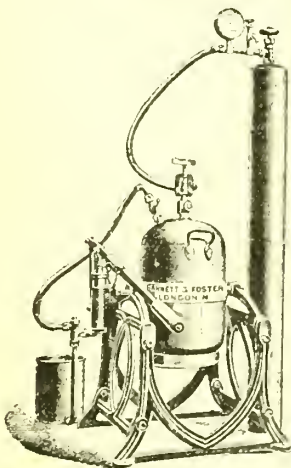
**NO MESS. NO DANGER.**

Used by the LEADING CHEMISTS  
of the Kingdom.

- No. 1 Size.**—(Producing by hand power 600 doz. large bottles per day, by steam power 1,200 doz. large bottles per day, including fast and loose pulleys for power, and fitted with our "Galway" Syphon Filler without syrup-pump ... .. £57
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- No. 3 Size.**—(Producing by hand power 200 doz. per day), including "Galway" Syphon Filling Machine without syrup-pump, or Ideal Turnover Filling Machine ... .. £33

### THE "CYLINDER" SODA WATER PLANT.

This is a cheap apparatus for use with Compressed Carbonic Acid Gas for serving Soda Water on the counter by means of the draught arm.



Prices from

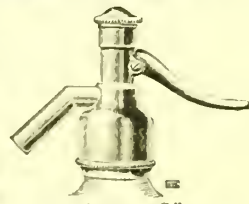
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Complete.

### THE "LONDON-MADE" SYPHON.



Pattern "A."



BEST BOHEMIAN CRYSTAL VASES.

Pure Tin Tops.

No admixture of Lead in any part of Syphon.

Pattern "C."

Tops Stamped Free on orders of 100 Vases Engraved ... .. 1,000

PRICE 18/- PER DOZEN.

Proportionate advance for larger sizes.

Pattern "C" Long Lever Syphon, 19/- per dozen.

Carriage Paid quotations upon receipt of specification.

Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.

NIAGARA WORKS, 26<sup>T</sup> EAGLE WHARF ROAD, LONDON, N.



ESTABLISHED HALF A CENTURY.  
PRIZE MEDALS AWARDED AT ALL THE EXHIBITIONS.

SUPPORT ENGLISH MANUFACTURE.

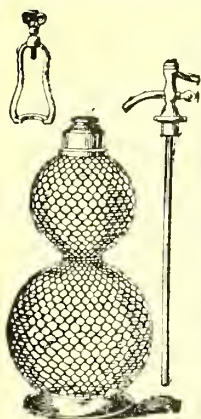
## EUGENE CÉRAUT & CO.'S LATEST NEW PATENT SELTZOGENE

The Best Seltzogene Extant & Warranted.  
Wear and Working Guaranteed. No more  
Screwing required. Tap cannot get corroded.

### GREAT REDUCTION IN PRICE.

Patent Wire. Cane.  
3-Pint...11/-..... 12/-  
5-Pint...14/9..... 15/9  
8-Pint...22/6..... 25/-

Large Discounts allowed  
off for quantities.



**SELTZOGENES & SYPHONS.**

## SYPHONS.

Best English Block Tin Tops  
and Ebonite Fittings, from  
18 - per dozen.

HEADS of guaranteed quality.

VASES—Best Crystal and  
Colours.

PRICES ON APPLICATION.

CONTRACTORS TO HER MAJESTY'S GOVERNMENT

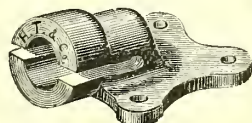
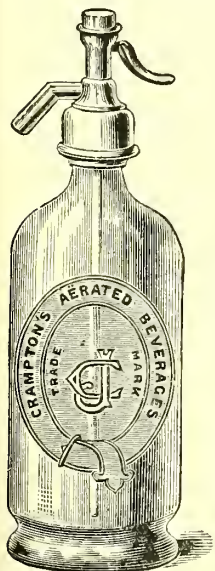
The Premier Manufacturers in the United Kingdom.

SOLE ADDRESS—

139 & 141 FARRINCEDON RD., LONDON, E.C.



# SYPHONS and ACCESSORIES.



Syphon Vice.



Syphon Tongs.

Syruping Syringe (Spink).  
Price 15/-.



[6]

**HAYWARD-TYLER & CO.**  
Whitecross Street LONDON, E.C.

## LEMON SQUASH AND LIME JUICE CORDIAL (Filtered Bright).

|         |       |        |         |       |           |         |    |     |          |
|---------|-------|--------|---------|-------|-----------|---------|----|-----|----------|
| Reputed | Pint  | Square | White   | Glass | Stoppered | Bottles | .. | 3/9 | per doz. |
| Do.     | Quart | "      | "       | "     | "         | "       | .. | 6/6 | "        |
| Do.     | do.   | "      | Green   | "     | "         | "       | .. | 5/9 | "        |
| Do.     | Pint  | Round  | Bottles | ..    | ..        | ..      | .. | 3/6 | "        |
| Do.     | Quart | "      | "       | ..    | ..        | ..      | .. | 5/9 | "        |

Plain Labels if desired.

For 6 dozen Quarts in one delivery .. .. 6d. per doz. less.

For 12 dozen Pints do do. .. .. 3d. "

IN BULK 1/6 PER GALLON (BOTTLES EXTRA).

Delivery free in London.

SAMPLES ON APPLICATION.

**CHAS. SOUTHWELL & CO.**

Wholesale Confectioners, DOCKHEAD, S.E.

## LIME JUICE AND LIME JUICE CORDIALS.

Large buyers are advised to send particulars of their  
requirements to

**DRIS & CO., Ltd.,** Pratt Street, CAMDEN TOWN, N.W.

## BUYERS' GUIDE,

See pages 15, 16, 17.

# Do You Make Your Own Mineral Waters ?

If NOT you should, for a great many Chemists, Hospitals, &c., are using our simple and most effective Plant, and producing splendid  
Aerated Waters. Write for List.

**RENTAL TERMS ON APPLICATION.**

**THE VOLCANIC AERATION CO.,** 203 Great College Street, LONDON, N.W.

# A. MILLAR & CO., LTD., DUBLIN PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.



# St. Raphaël Quinquina.



TONIC WINE AND APPETISER.

FIXED RETAIL PRICE:

3/3 per Bottle. 1/9 per Half Bottle.

The LANCET, May 28, 1898:

"Of undoubted Tonic value."

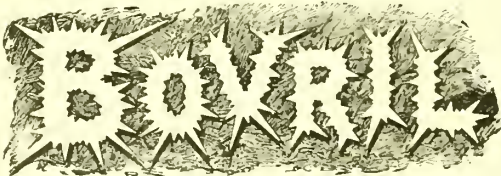
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St. Raphaël Quinquina has an  
average Daily Sale of  
15,000 Litres.

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Wholesale Agents:

**BOWEN & McKECHNIE,**  
CROSS STREET, FINSBURY, E.C.



## IN THE KITCHEN

Bovril is the cook's most valuable helper, not only because it makes delicious soups, gravies, and sauces, and enhances the flavour of every dish for which it is employed, but because it contains all the nutritive and stimulative properties of the prime ox beef in the smallest possible bulk.

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Bovril is equally useful, and its exceptional "food value" has been recognised by the greatest authorities on dietetics and medicine.

**BOVRIL LIMITED, FOOD SPECIALISTS, LONDON**

# CRYSTALLIZED DRINKS.

*Chemists' Style and Quality.*



FACSIMILE OF BOTTLE.

Artistic Handbills Supplied. Sold by all Sundry Houses.

Samples, Terms, &c., on Application.

**DEIGHTON & SMITH**  
BRIDGNORTH, SHROPSHIRE.

Extracts from Trade  
Correspondence  
last Season.

"My customers prefer  
them to any other make  
on the market."

"The best line I ever  
took up—they are beyond  
comparison with any  
other Fruit Juices."

"Your Fruit Juices  
have given great satisfaction  
among my customers."

"Have had a rapid sale  
and are greatly liked."

"We are hopeful of  
doing a much larger trade  
next season, as the quality  
of your article is excellent."

"The sale of your Fruit  
Juices is rapidly increasing.  
My customers prefer  
them to all others."

"I have been selling  
—, but shall keep  
yours only in future."

42/- per Gross.

Half-gross Lots,  
Carriage Paid.

No Price printed on  
Labels.

# HOOKER'S MILK WINE.

VILNAC  
Registered  
Trade Mark

Of extrem utility in cases of (Patented).

Dyspepsia, Anæmia, Debility, Tuberculosis, Phthisis, Insomnia,  
Heart Weakness, Typhoid and other Fevers, all Wasting  
Diseases, Mental and Physical Overwork, Loss of Appetite, &c.

A peptonised product of milk containing all the constituents of the original  
milk (except fat) in a completely digested form. It is of great medical  
value for use in the sick-room, for convalescents, for those suffering from  
dyspepsia, insomnia, nervous disorders, &c.

Its value consists in the fact that the whole of the casein or curd of the  
milk is present in the Wine in the form of peptones, which are capable of  
being absorbed into the system without digestive effort. Whilst pos-  
sessing all the valuable properties of a highly peptonised milk it takes the  
form of a sound and palatable Wine, of great use in all febrile disorders and  
cases of acute illness where milk or milk and a stimulant is essential, and  
often difficult to administer. It is in fact a powerful food stimulant  
and tonic, and may be used successfully with benefit both in illness and  
convalescence. It is a most useful appetiser and aid to digestion under  
any circumstances, and especially for the weak and aged.

Many valuable testimonials have already been obtained from medical men  
and others who have tested and used the Wine.

A Physician in Large Practice certifies:—"HOOKER'S MILK WINE  
is a valuable addition to the dietary of the sick-room, and I have found  
it a powerful restorative and stimulant, not only in severe illness, but  
also in cases of nervous exhaustion induced by overwork, study, and  
other causes. It has also been used with marked and surprising success  
where no other food could be taken, and I have been struck with its  
value as an appetiser when taken shortly before a meal."

Sold in Wine Quarts and Pints, 4/6 and 2/6 per bottle, through any  
Chemist, or from the Manufacturers:—

**THE MILK WINE CO., LTD.**

9 Arundel Street, STRAND, LONDON, W.C.

**FREE SAMPLES** to Medical Practitioners only will be sent on applica-  
tion. Included with each sample is a small bottle of Tannic Acid in  
solution. A simple experiment will then immediately demonstrate the  
Milk Peptones present in the Wine.



# DR TIBBLES' F-Cocoa

"Undoubted Purity and Strength."—*Medical Magazine*.

"In the front rank of really Valuable Foods."—*Lancet*.

## PERFECTLY PURE BUT NOT INSIPID

FAVOURED BY THE HOMES AND HOSPITALS OF GREAT BRITAIN.



BURROUGH'S "RED CROSS BRAND"  
**COCA WINE.**

GALE STREET DISTILLERY  
CHELSEA,  
LONDON, S.W.

WRITE FOR PRICES AND SAMPLES.

Dr. A. B. GRIFFITHS says, "Second to none in the market."—*Aug. 24, 1896.*

Also S.V.R. & S.V.M.  
At Lowest Prices. [3]

## BEAUFOY'S ACETIC ACID

30 per cent., 33 per cent. Brit. Pharm. 1898,  
and all strengths up to Glacial.

PRICES QUOTED ON APPLICATION.

.....

Established 1730. **SOUTH LAMBETH, LONDON, S.W.** Established 1730.

# IT WILL PAY YOU TO PUSH COOMBS' MALTED FOOD

for Infants and Invalids.

AWARDS.

2

GOLD  
MEDALS.



Recommended  
by the  
Medical  
Faculty  
and  
Leading  
Analysts.

See  
Drs. Goodfellow's  
and  
Granville H.  
Sharpe's  
Reports.

Bears a good profit, and is only supplied to those who agree to sell at full advertised prices.

TERMS ON APPLICATION.

COOMBS' "EUREKA" AERATED FLOUR CO., LTD.

Lenton Boulevard, Nottingham, & 8 & 8a Farringdon Road, London, E.C.

## SUMMER LINES

THE 20TH CENTURY  
BEVERAGE

C.C.C.

WHOLESOME  
DINNER WINE.

Concentrated Claret Cup

21/6 & 12/6 doz.

In Bottles 6 & 12 to  
Gallon.

Dilute with Plain or  
Aerated Water for the  
immediate production  
of Excellent Claret Cup.

### Wine Licence Required.

|                      |            |       |                                                                                                                                    |
|----------------------|------------|-------|------------------------------------------------------------------------------------------------------------------------------------|
| "Health Salt"        | =          | 25/=  | GROSS 4 oz. Tins with lever<br>lids, handsomely<br>labelled. Customer's<br>name & address printed<br>on 1 gross assorted,<br>free. |
| "Sulphur Salt"       | =          | 30/=  |                                                                                                                                    |
| Lemon Crystals       | =          | 36/=  | 2½ oz. direct squares<br>customer's name and<br>address printed on 1<br>gross assorted, free.                                      |
| Lime Juice Crystals  | =          | 36/=  |                                                                                                                                    |
| Brown Boot Polish    | =          | 36/=  | 3 oz. white glass bottle,<br>name on 1 gross, free.                                                                                |
| Straw Hat Polish     | 21/=, 40/= |       | All Colours. Name on<br>1 gross assorted, free.                                                                                    |
| "P & O" Chutney      | 5/6, 10, = | DOZEN | ½ lb. and 1 lb. bottles<br>"The King of Sauces"<br>for Hot & Cold Meats.                                                           |
| Salad Dressing Cream | 8/=        |       | Prepared with Double<br>Cream.                                                                                                     |

Terms: NET CASH. Carriage Paid on £5 orders.

**BLEASDALE, LIMITED, YORK.**

## CAUTION!

# "YORKSHIRE RELISH."

IN THE HIGH COURT OF JUSTICE  
CHANCERY DIVISION.

WILLIAM POWELL (trading as Goodall, Backhouse & Co.)

v.

MAY & CO.

NOTICE is hereby given that on the 24th day of February, 1899, the Hon. Mr. JUSTICE KEKEWICH ordered that the Defendants their servants and agents be restrained until judgment in this Action or further order from in any manner using or applying the words "YORKSHIRE SAUCE" or "YORKSHIRE RELISH" as descriptive of or in connection with or in respect of any Sauce or Relish manufactured by them or not manufactured by the Plaintiff without clearly distinguishing such Sauce or Relish from the Sauce or Relish of the Plaintiff And from describing any such Sauce or Relish as aforesaid as "THE ORIGINAL YORKSHIRE" SAUCE OR RELISH and from selling or offering or exposing or advertising for sale or procuring to be sold any such Sauce or Relish as aforesaid under labels or wrappers or enclosures or otherwise to be calculated to represent or lead to the belief that such Sauce or Relish is the Sauce or Relish of the Plaintiff and from selling or supplying any such Sauce or Relish as aforesaid in response to orders for "YORKSHIRE RELISH" or for the Sauce or Relish of the Plaintiff and from in any manner aforesaid or in any other manner passing off or enabling or assisting others to pass off any such Sauce or Relish as aforesaid as or for the Sauce or Relish of the Plaintiff.

Dated this 9th day of March, 1899.

J. SEYMOUR SALAMAN,

65 & 66 Chancery Lane, London,

Solicitor for

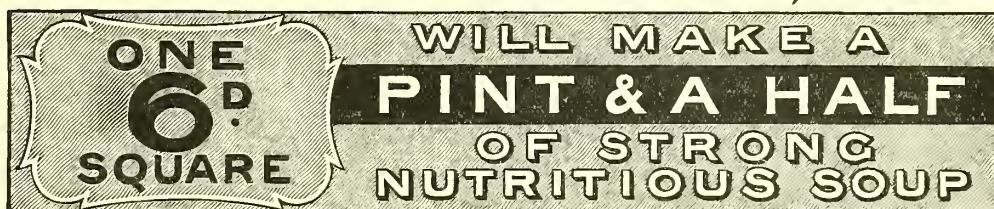
Messrs. GOODALL, BACKHOUSE & Co.,  
Leeds, Yorkshire.



THE MOST ECONOMIC, CONVENIENT, & PORTABLE FORM OF SOUP

# LAZENBY'S SOUP SQUARES

(MULLIGATAWNY, GRAVY, JULIENNE, ETC.)



*Prepared by E. LAZENBY & SON, LTD 18, Trinity St., LONDON, S.E.*

SOLD BY GROCERS, STORES, ETC.

## THOS. GUEST & CO. Carruthers Street, MANCHESTER.

MAKERS OF MEDICATED LOZENGES AND JUJUBES.

B.P., T.H. Ph., and General Proprietary Lozenges. Decorated Tin Cartons of 2 and 4 lbs. Linseed, Licorice and Chlorodyne—a Speciality. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all Effervescing Preparations Boiled Sugars, Floral Tablets.

SEND FOR LIST, SAMPLES, AND COMPARE.

TELEPHONE 235. TELEGRAMS "GUESTO."

## IMPORTANT to CHEMISTS

A supply of Pure Water for Manufacturing Purposes is obtained from rain-water by using the

## MAWSON CARBONIFEROUS SAND FILTER

THE GALOS FILTER WORKS, 137a Pilgrim Street, NEWCASTLE-ON-TYNE.



# Kronthal

## WATERS.

**Absolutely Natural! Every bottle filled at the Kronthal Springs.**

**Sole Importers—SCHWEPPE'S LTD.**

Messrs. SCHWEPPE'S LTD. have pleasure in notifying the general public that they have secured the **SOLE AGENCY** for the importation of Kronthal Waters into the United Kingdom. After full enquiry and numerous experiments, Messrs. SCHWEPPE'S LTD. are of the opinion that the Kronthal Natural Mineral Waters are unsurpassed by any other Waters imported, for use as follows, viz. :—

# Kronthal

### BLUE LABEL.

*A Delicious Table Water.*

May be drunk plain, and especially adapted for blending with WINES and SPIRITS, LEMON SQUASHES, FRUIT ESSENCES, CHAMPAGNE and other Cups.

# Kronthal

### RED LABEL.

*A most Palatable, Highly Mineralised Water.*

*Most valuable in cases of Gout and Stone.*

Effects the Elimination of Uric Acid from the Blood. Laboratory experiments prove that Kronthal (Red Label) is a distinct solvent of Uric Acid and Gouty deposit.

KRONTHAL (Red Label) DISSOLVES SIX TIMES AS MUCH URIC ACID as pure Distilled Water.

RED LABEL ACTS AS A VERY MILD APERIENT.

# Kronthal

### GREEN LABEL.

*An Exceptional Iron Water.*

*Invaluable in Cases of Anæmia and Chlorosis.*

Contains Iron in a very valuable, because easily assimilable form.

Its administration secures the same improvement in bloodless conditions as the well-known Blaud Pill, used so largely by the Medical Profession.

.....  
THE LANCET says:—"Our analysis established the purity of these Waters."  
.....

*For Price List and Particulars apply to THE SOLE IMPORTERS—*

**SCHWEPPE'S Ltd., LONDON, W.**

Export Enquiries—KRONTHAL COMPANY, Ltd., 53, Berners Street, London, W.



Three Minutes' Walk from Aldersgate St. Station.

REGISTERED

**ILLUSTRATED PRICE LIST.**

Revised January, 1899.

Sent Post Free on application with Business Card.



**Druggists' Sundries.**  
**Packed Drugs & Perfumery.**  
**Patent Medicines.**

**NO TRAVELLERS.**

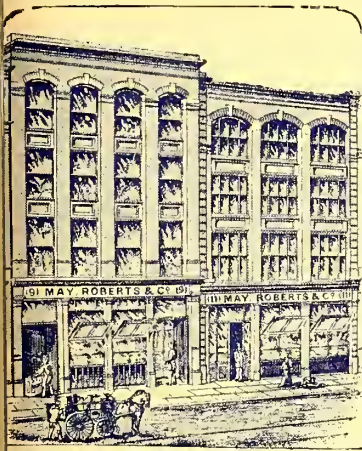
Their Expenses  
 given to Buyers.  
**CARRIAGE PAID.**

See Terms.

**MAY, ROBERTS & CO., LONDON**

Telegraphic Address: "FEEDING BOTTLES LONDON."

Telephone No. 889. Holborn Exchange.

**ALMOND SHAVING CREAM.****ARECA NUT TOOTH PASTE.****CHERRY TOOTH PASTE.**

BURNT-IN LABELS

6d. pots ... .. per doz. 3/4  
 1/- pots ... .. " 6/-



BURNT-IN LABELS.

6d. size ... .. per doz. 3/4  
 1/- size ... .. " 6/-



BURNT-IN LABELS.

6d. size ... .. per doz. 3/4  
 1/- size ... .. " 6/-

**COSMETIQUES, DUCHARD et CIE.**

White, Brown, and Black. In Glass-top Boxes. One Dozen.



Fig. 1.

ROUND, in Fancy Slide Cases, as Fig. 1 ... .. 2/2 per dozen.  
 OVAL, in Tinfoil, as Fig. 2 ... .. No. 1, 1/3; No. 2, 2/3; No. 3, 3/3 "  
 OVAL, in Tinfoil with Caps... .. No. 2, 2/9; No. 3, 3/9 "  
 OVAL, in elegant Flat Slide Card Cases, as Fig. 3 ... .. 3/3 "

The above are got up most attractively, with very artistic Labels and Cases in Colours.



Fig. 2.



Fig. 3.

**FULLER'S EARTH.—Levigated.****TOOTH POWDERS.****VIOLET POWDER.**

1d. boxes,  
 per gross 4/3  
 2d. boxes,  
 per gross 7/-  
 6d. boxes,  
 per doz. 3/-



White Rose Quinine Pearl  
 Areca Nut Charcoal Astringent  
 Saponaceous Eucalyptus Lavender  
 Violet Carbolic Coral

Assorted in Glass-top Show-cases, per doz. 3/6  
 Smaller size in plain cases, per doz. 2/-



(Warranted Pure Starch.)

1d. boxes ... .. 4/6 per gross  
 2d. " ... .. 7/6 "  
 6d. " ... .. 3/6 per doz  
 1/- " ... .. 6/- "

The above Specialities are well got up. Subject to usual terms. Ask for Samples.

**MAY, ROBERTS & CO., LONDON.**



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# THE ELLIMAN FIRST AID BOOK

(ILLUSTRATED).

Part I. HORSES ... pp. 12 76 | Part III.—BIRDS ... pp. 113 130  
 Part II.—DOGS... ... „ 77 112 | Part IV.—CATTLE ... „ 131-170

*Owners of Animals can have a copy sent post free upon receipt of Sixpence and a legible address, or the label from a wrapper of a 2/-, 2/6, or 3/6 bottle of Elliman's Embrocation would secure a copy post free.*

A label is now pasted upon the outside of the wrappers of the 2/-, 2/6, and 3/6 sent out from our Works, and Chemists who have 2/-, 2/6, or 3/6 bottles in stock can have labels to affix to the 2/-, 2/6, and 3/6 bottles. Thus, a label or 6d. is required to secure a copy by the public. Not sent upon sale or return. No rubber stamping of the books or sticking on of labels or other disfigurements admitted, as this would be to the disadvantage of all concerned.

**Copies 46 per dozen net, carriage paid.**

*Extract from letter received from the Right Honourable the EARL OF COVENTRY, Master of Her Majesty's Staghounds:—*  
 "The book is full of valuable information and advice, and it cannot fail to be of great service."

PUBLISHED BY **ELLIMAN, SONS & CO., SLOUGH, ENGLAND.**

## Cadbury's Cocoa

**ABSOLUTELY PURE,  
therefore BEST.**

Cadbury's is "The Typical Cocoa of English Manufacture, Absolutely Pure."—*The Analyst.*

NO CHEMICALS USED IN CADBURY'S AS IN THE SO-CALLED PURE FOREIGN COCOAS.

**DO NOT LET YOUR CHILD DIE!**

Fennings' Children's Powders Prevent Convulsions; are Cooling and Soothing.

## FENNINGS' CHILDREN'S POWDERS.

For Children Cutting their Teeth, to Prevent Convulsions.

Sold in Stamped Boxes, at 1s. 1½d. and 2s. 9d. (great saving), with full Directions.

Do not contain Antimony, Calomel, Opium, Morphia, nor anything injurious to a tender babe.

Chemists, by applying to the Patent Medicine Houses and Wholesale Chemists, can obtain, free of any charge, a supply of "FENNINGS' EVERY MOTHER'S BOOK" for Counter distribution.

SAFE  
TEETHING.

SAFE  
TEETHING.

## HUILE CÔTE d'AZUR.

RIVIERA CREAM

**(THE "A1" OLIVE OIL).**

TRADE MARK.

The Olive crop which early in the season promised to be abundant, was damaged by the unusual heats of November and December, and the yield has been smaller than usual.

The fruit used in the manufacture of the "A1" Oil was very carefully selected, and all unripe and damaged fruit was thrown out, consequently the cost of the oil is considerably above that of former seasons.

The "A1" Brand consists entirely of VIRGIN OIL, and the flavour and colour leave nothing to be desired.

The Price of the "A1" OLIVE OIL, in bulk, is 8/6 per gallon;

and in Foreign Glass Bottles bearing a specially drawn label, in the centre of which is an Eastern Girl carrying on her head an earthen pitcher—

Reputed Quarter-pints 3/9 per doz  
 „ Half-pints ... 6/6 „

Reputed Pints ... 11/3 per doz  
 „ Quarts ... 21/- „

SALAD RECIPES BY DISTINGUISHED CHEFS SUPPLIED WITH EACH BOTTLE.

**SOUTHALL BROS. & BARCLAY, LTD., BIRMINGHAM**

